

FIG. 1

10

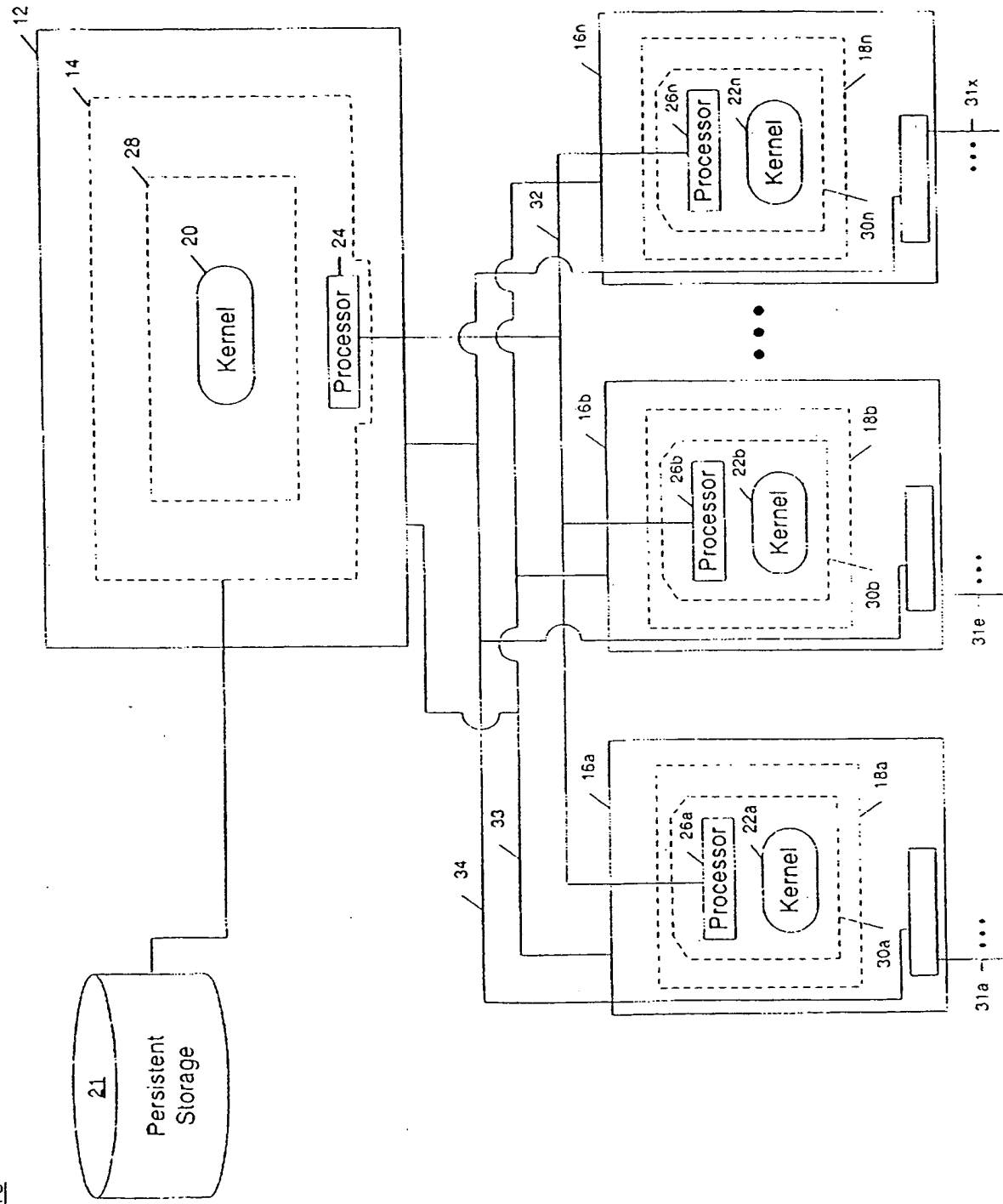


FIG. 2

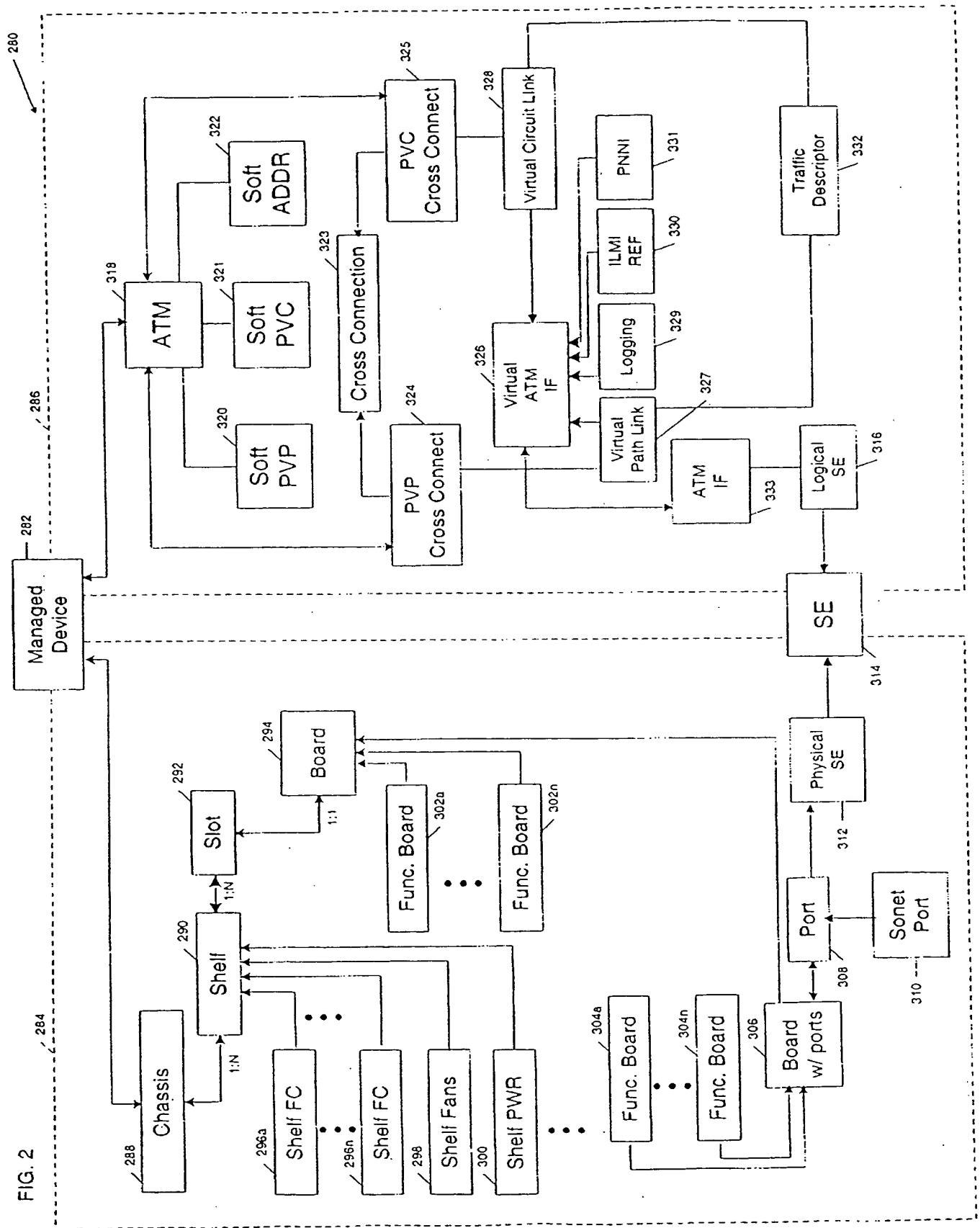


FIG. 3

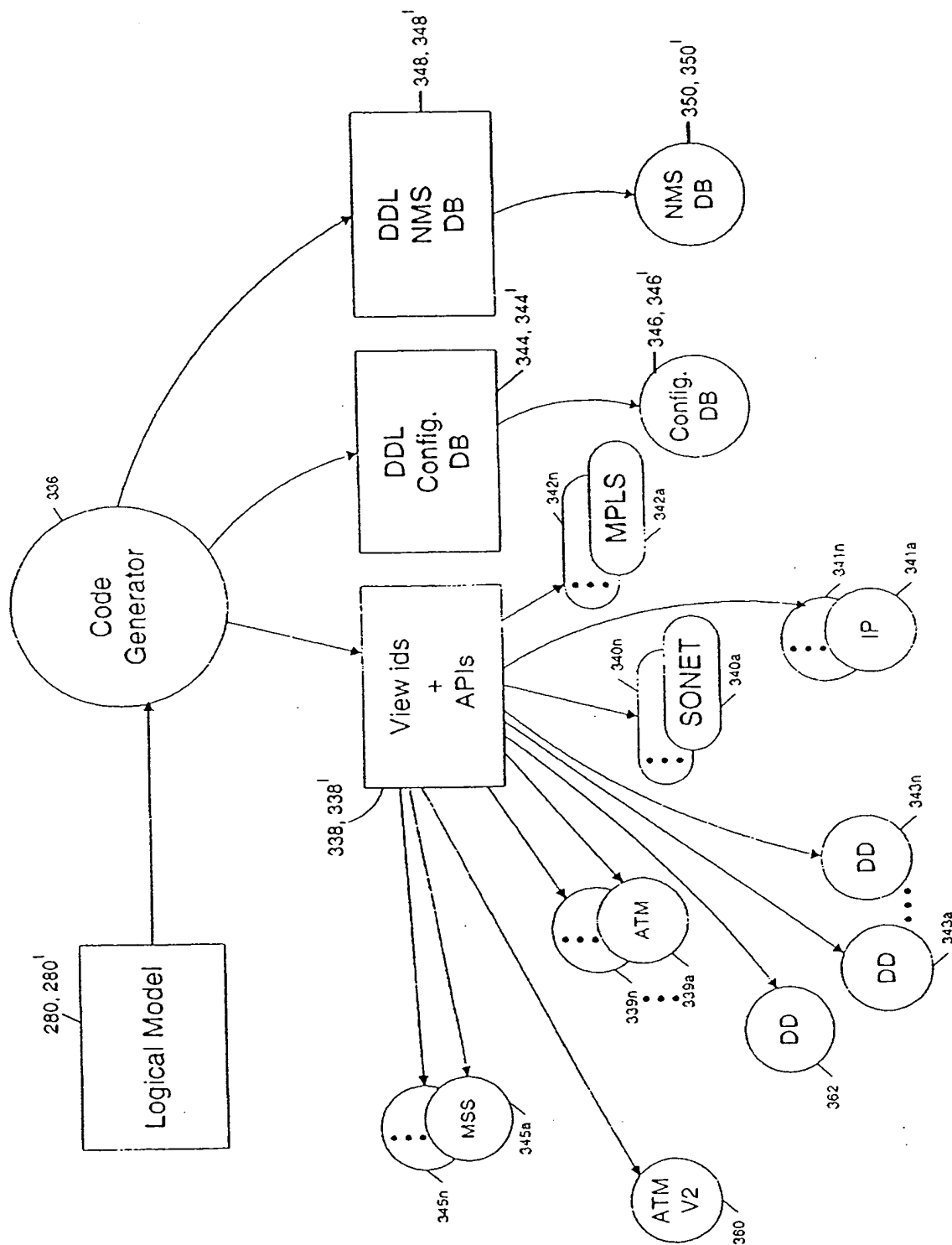


FIG. 4

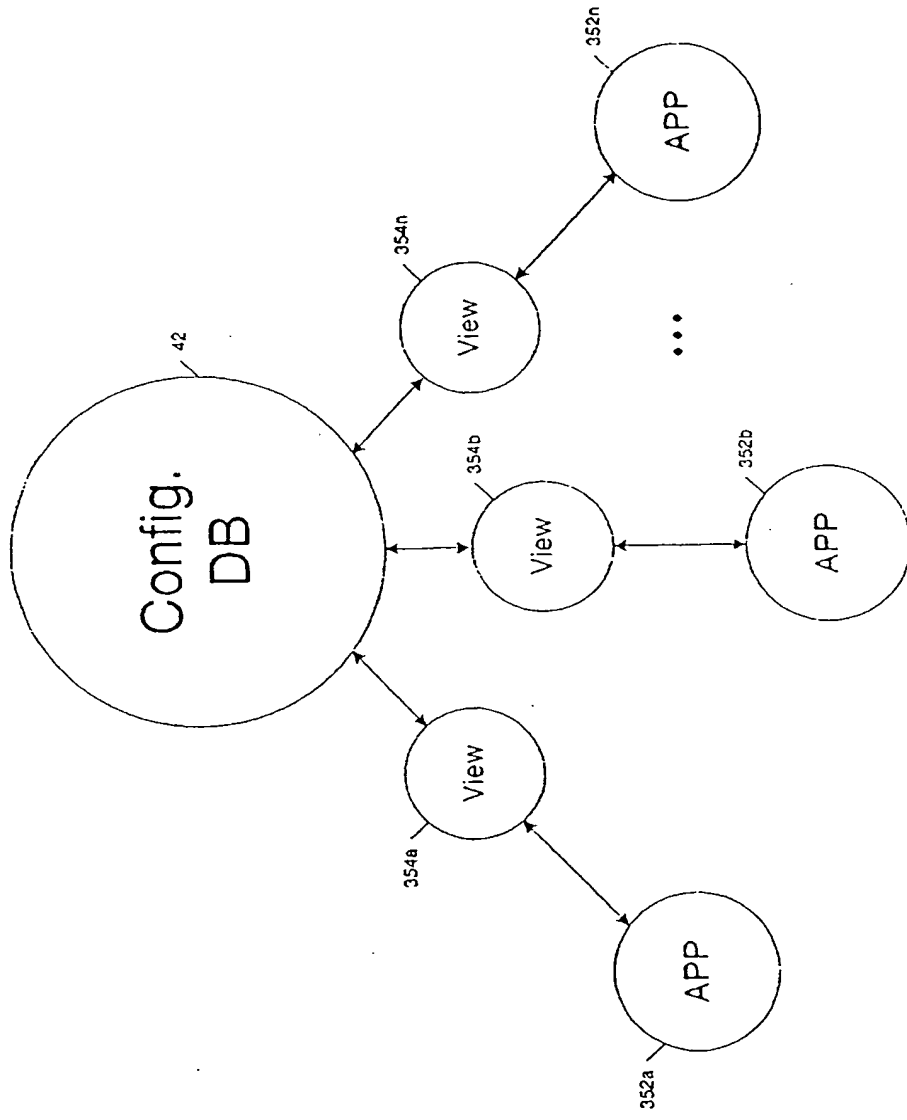
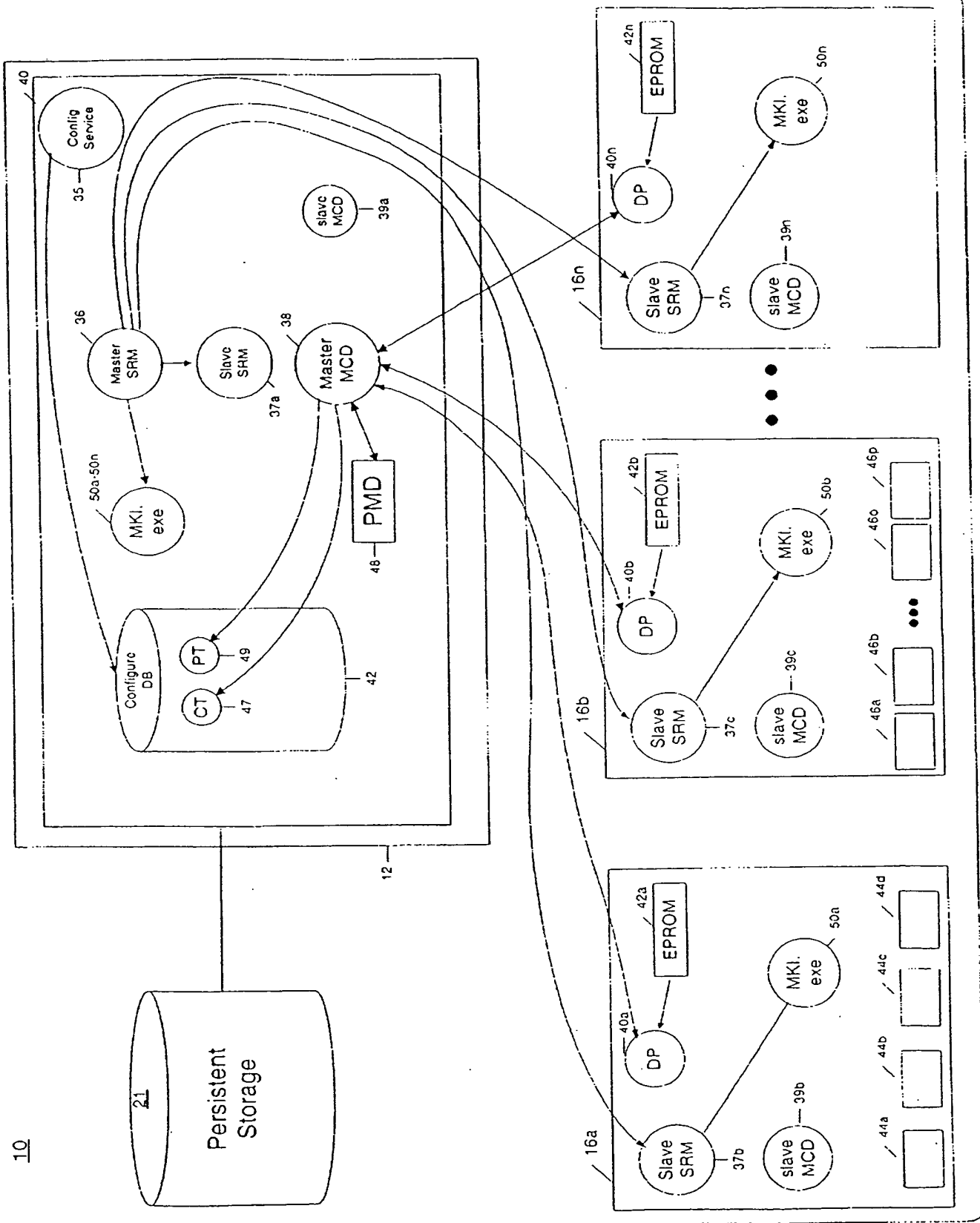


FIG. 5



CARD TABLE

47

PID	CWD TYPE	VERSION NO.	SLOT NO.	...
16 a — 500	0XF002	3	1	
16 b — 501	0XF002	4	2	
⋮	⋮	⋮	⋮	⋮
16 e — 505	0X6002	1	5	
⋮	⋮	⋮	⋮	⋮
16 n — 513	0XF002	1	12	
⋮	⋮	⋮	⋮	⋮

FIG. 6

PORT TABLE

	PID	PORT TYPE	VERSION NO.	SLOT NO.	...
44a	1500	00620	1	1	
44b	1501	00620	1	1	
44c	1502	00620	1	1	
44d	1503	00620	1	1	
46a	1504	00820			
	⋮	⋮	⋮	⋮	⋮
	1600	00620	1	8	
	⋮	⋮	⋮	⋮	⋮

49

FIG. 7

FIG. 8

10

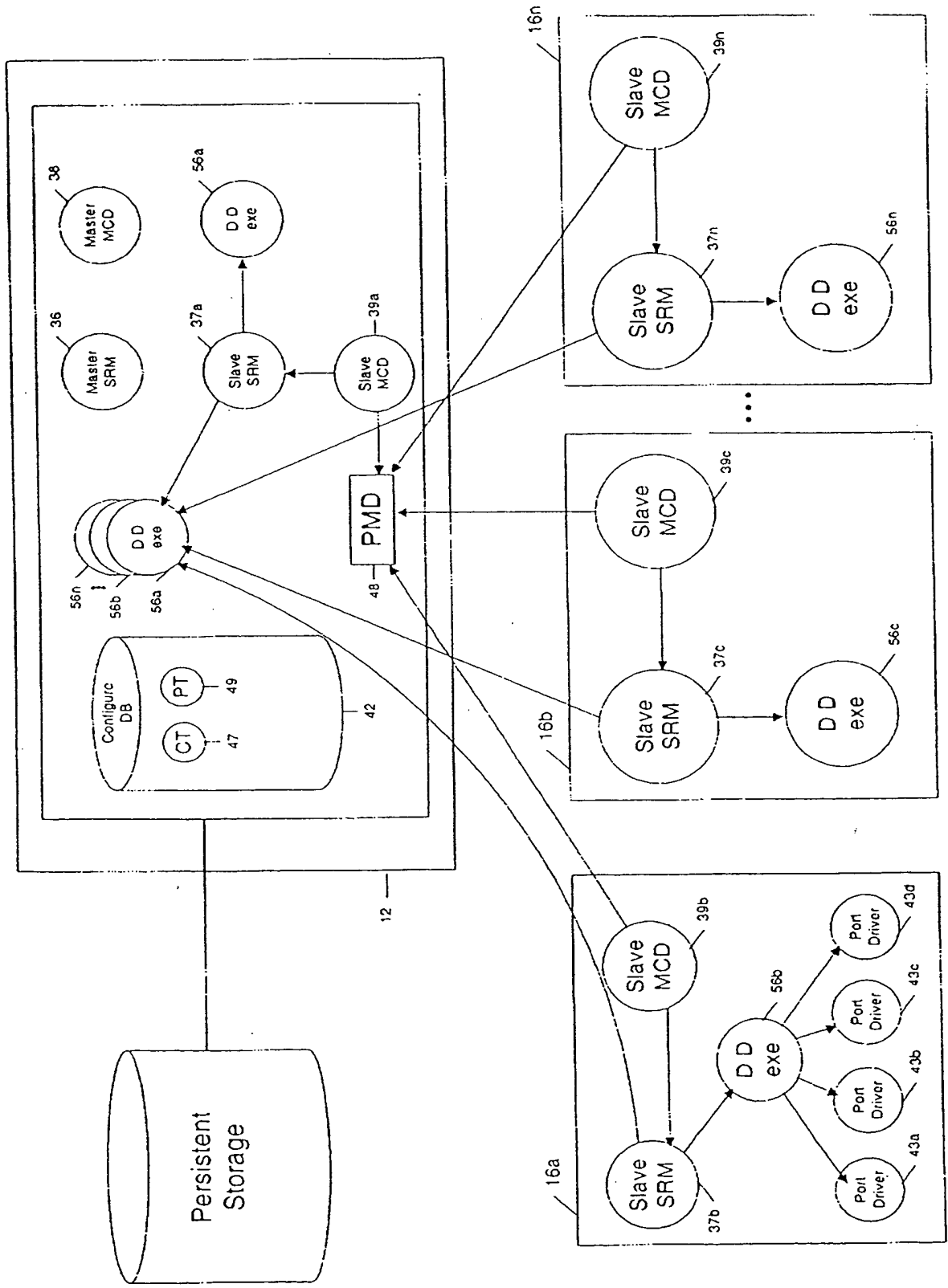


FIG. 9

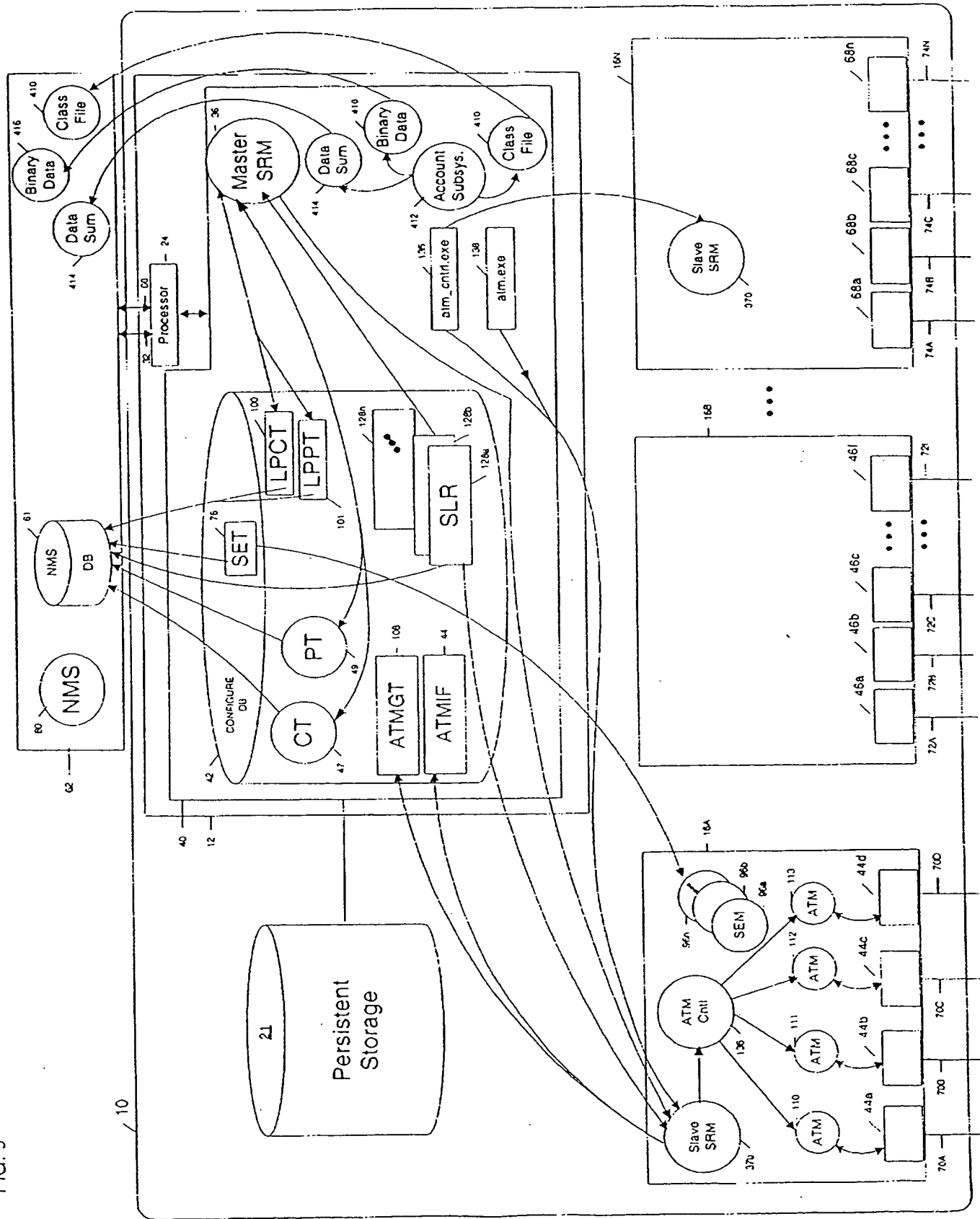


FIG. 10

Service Endpoint Table 76

	Service Endpoint #	Port PID
78	1	1500
80	2	1501
82	3	1501
84	4	1501
86	5	1502
88	6	1502
90	7	1503
92	8	1503
94	9	1503
168	10	1502
	⋮	⋮

FIG. 11a

Logical to Physical Card Table 100

	98 LID	102 Primary PID	104 Back-up PID
106	30	500	513
109	31	501	513
	⋮	⋮	⋮

FIG. 11b

Logical to Physical Port Table 101

	98 LID	102 Primary PID	104 Back-up PID
107	40	1500	1600
	⋮	⋮	⋮

FIG. 12

ATM Group Table 108

Group #	Card LID	...
1	30	
2	30	
3	30	
4	30	

FIG. 13

ATM Interface Table 114

ATM IF	ATM Group	SE	...
1	1	1	
2	1	1	
3	1	1	
4	2	2	
5	2	3	
6	2	4	
⋮	⋮	⋮	⋮
12	3	10	
⋮	⋮	⋮	⋮

FIG. 14

Software Load Record 128a

130	Control Shim	LID	132
134	atm-cntrl.exe	30	

FIG. 15

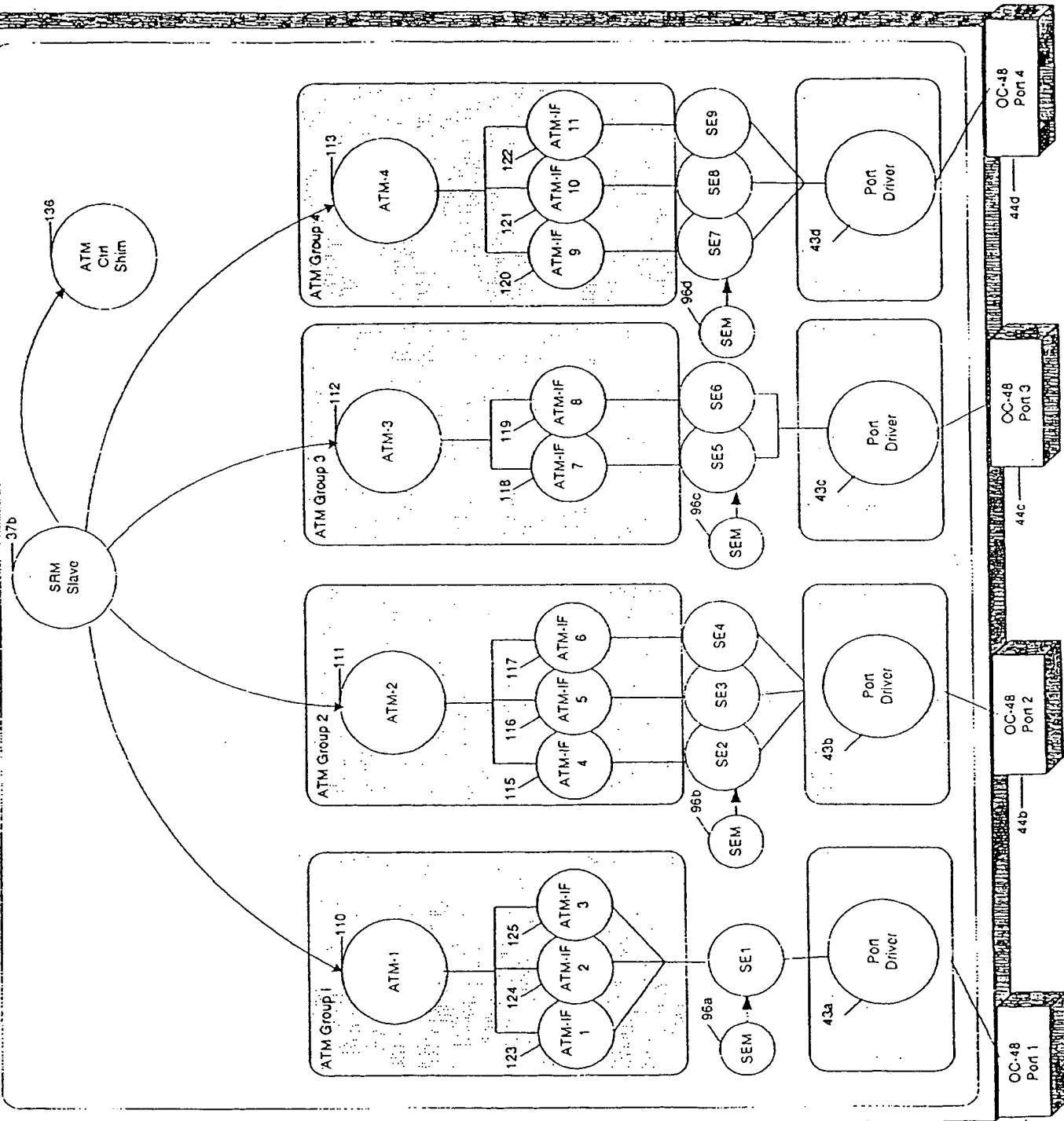
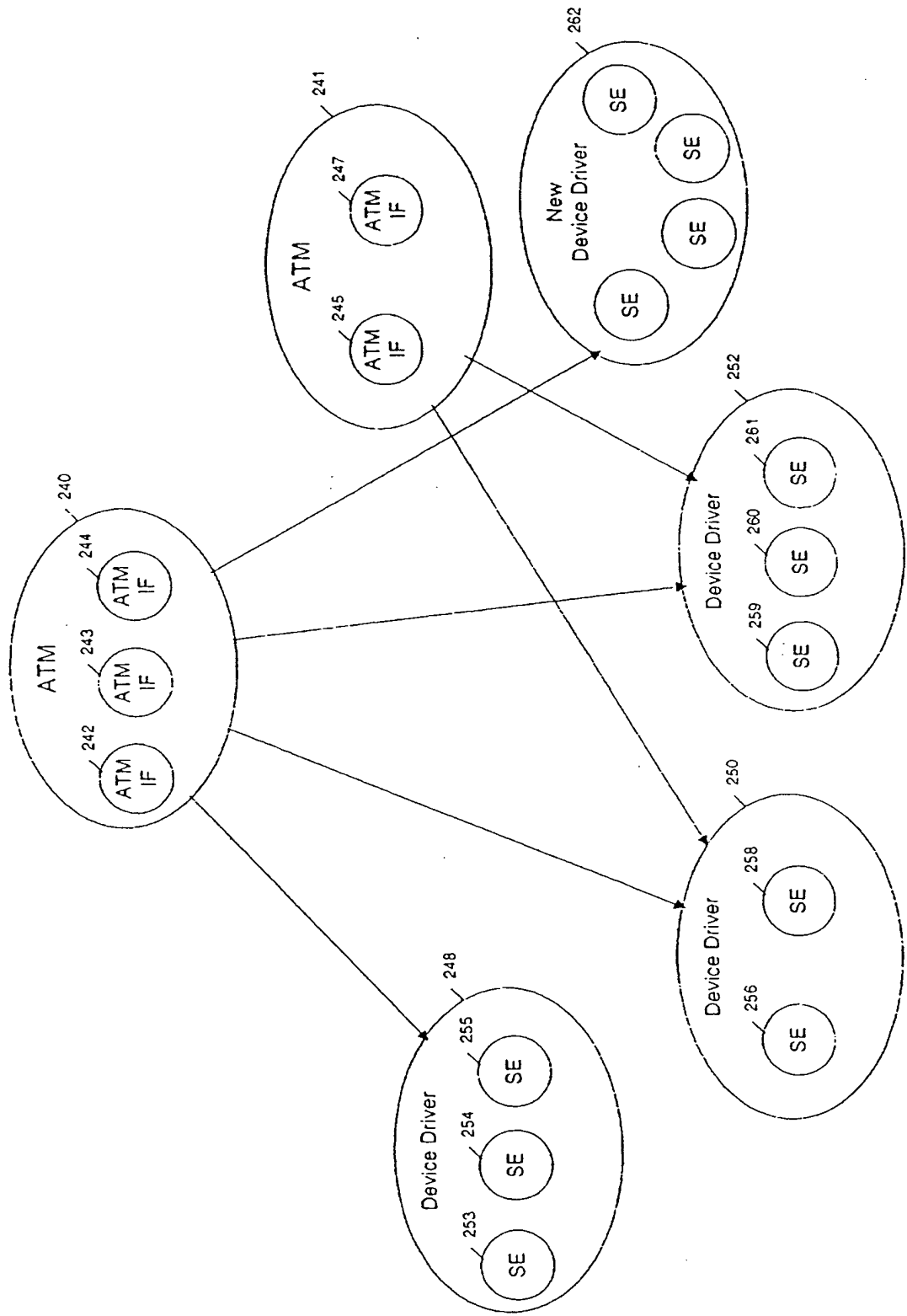


FIG. 16a



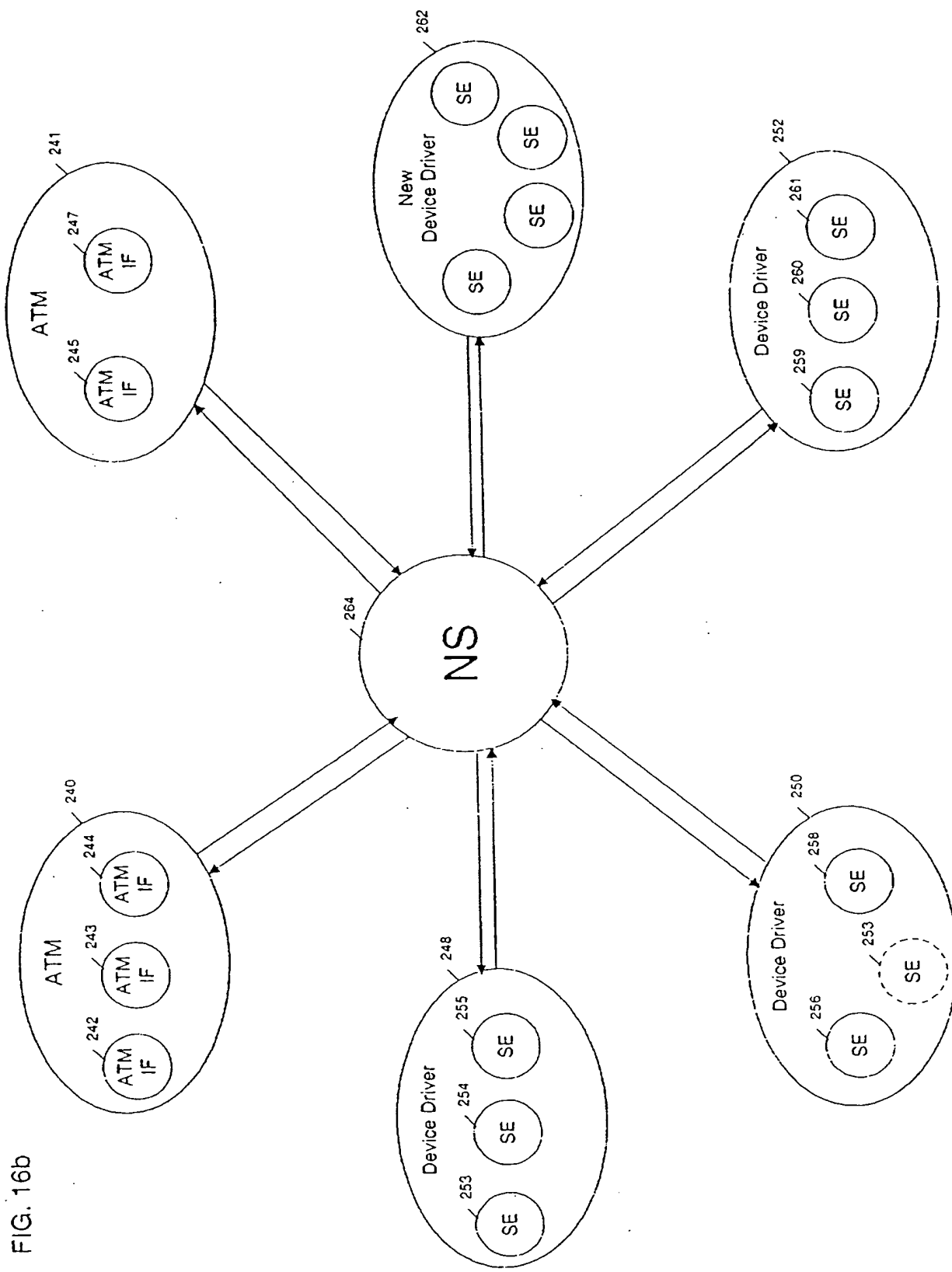


FIG. 16b

FIG. 16c

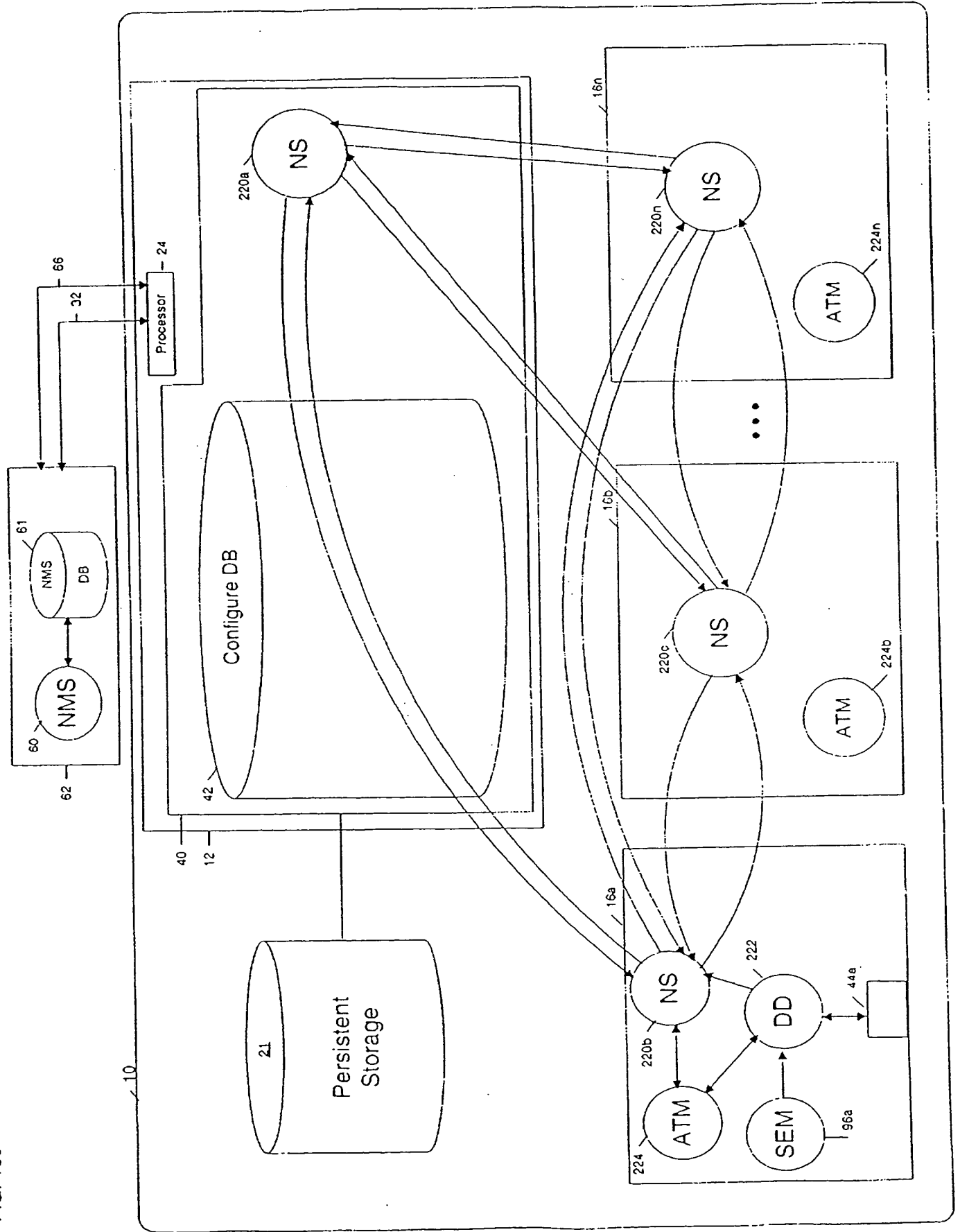


FIG. 16d

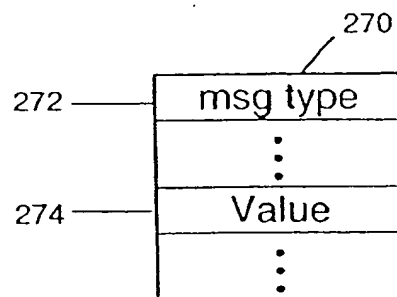


FIG. 17

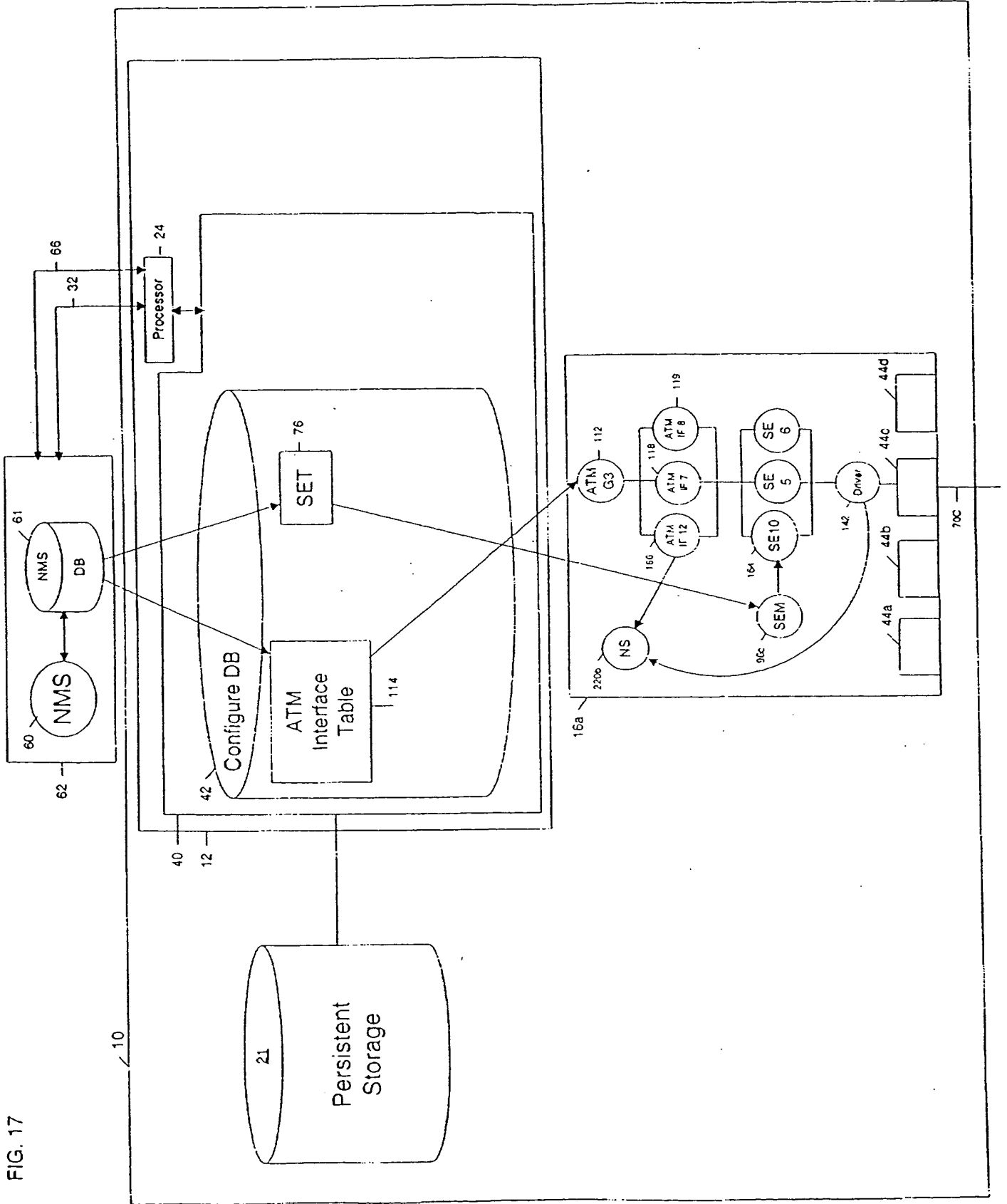
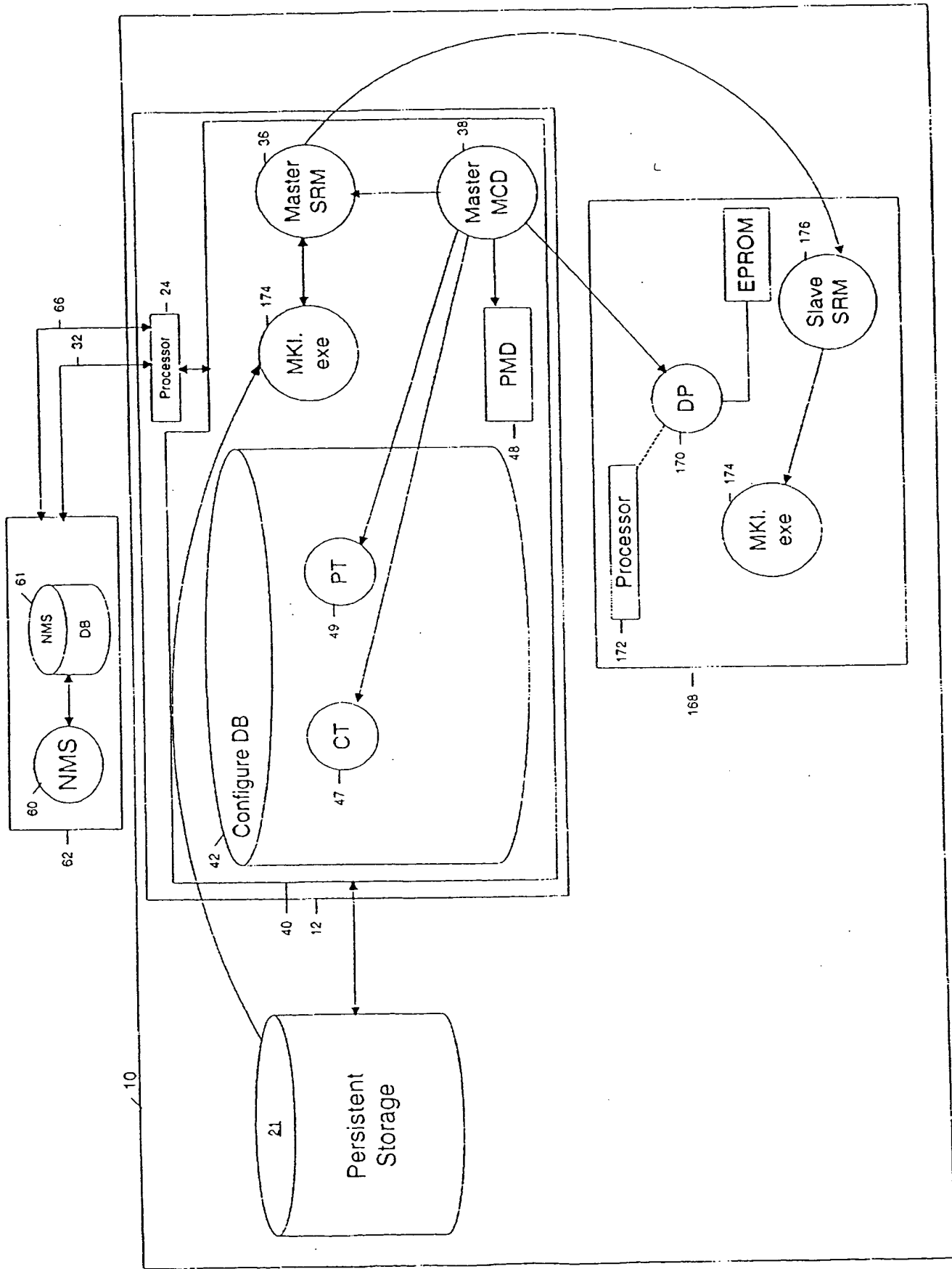


FIG. 18



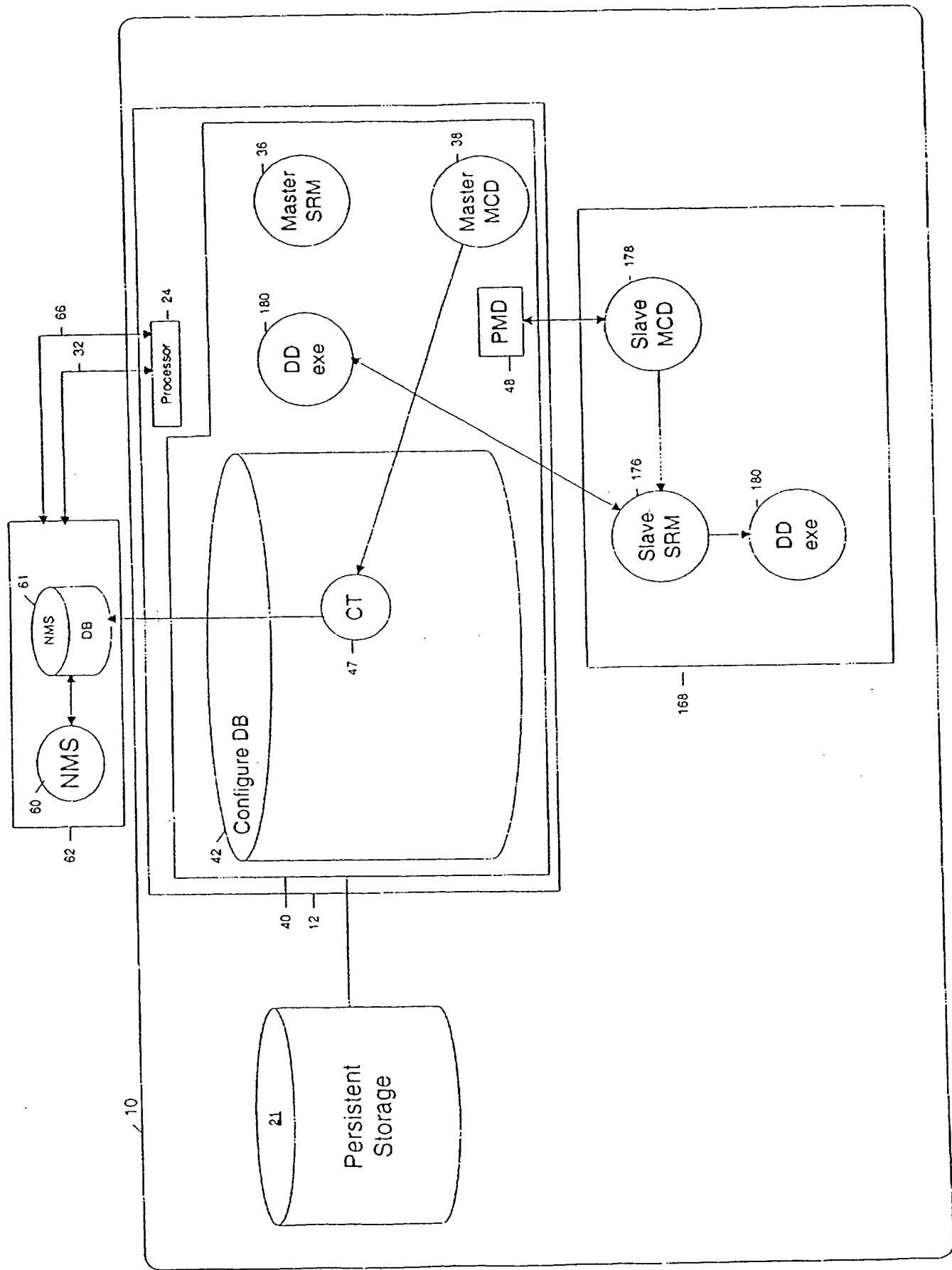


FIG. 20

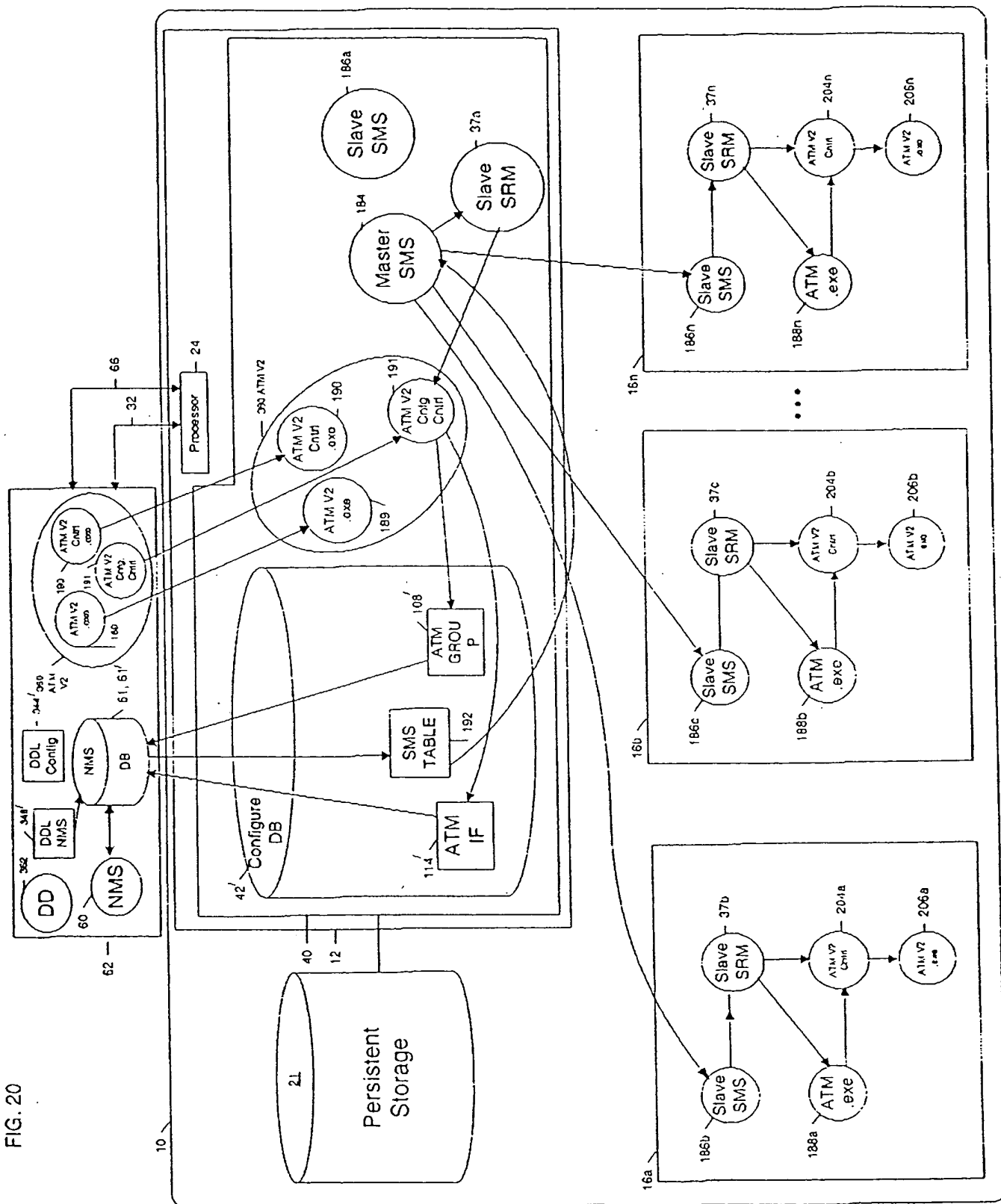


FIG. 21

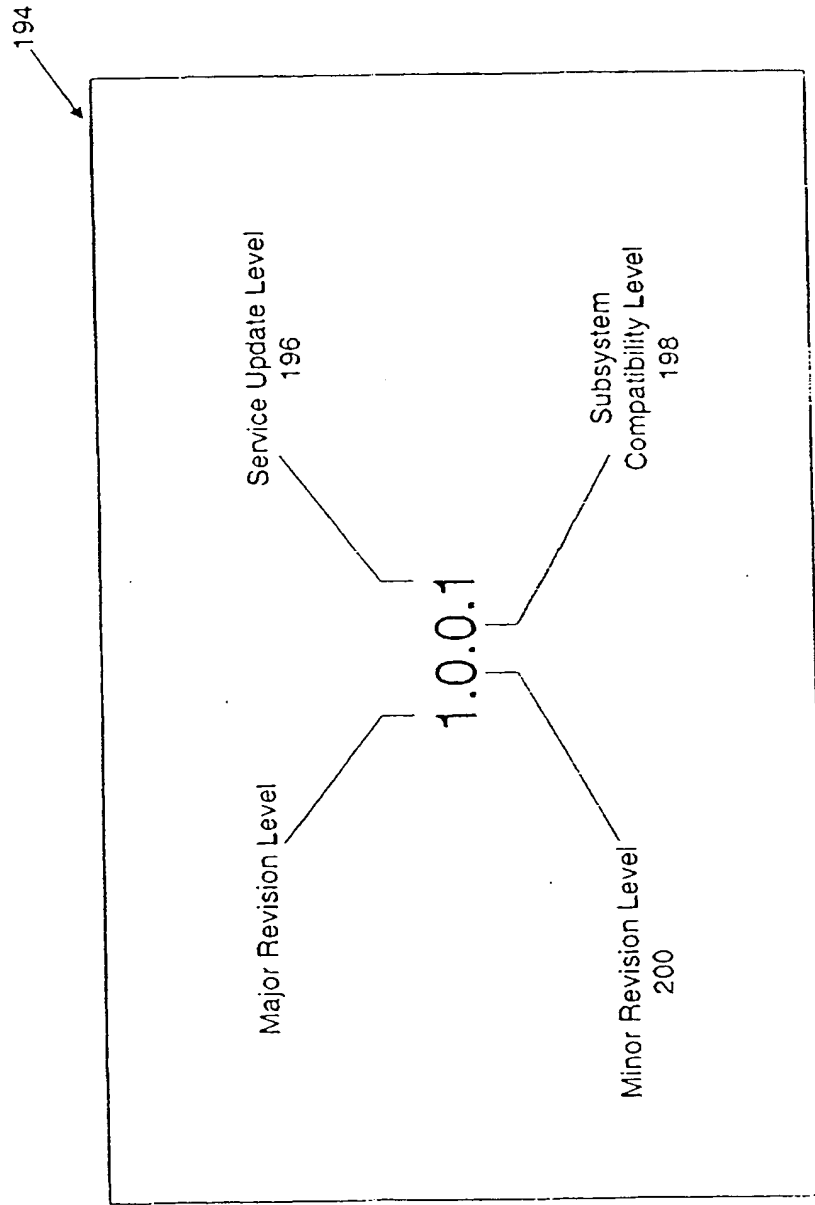


FIG. 22

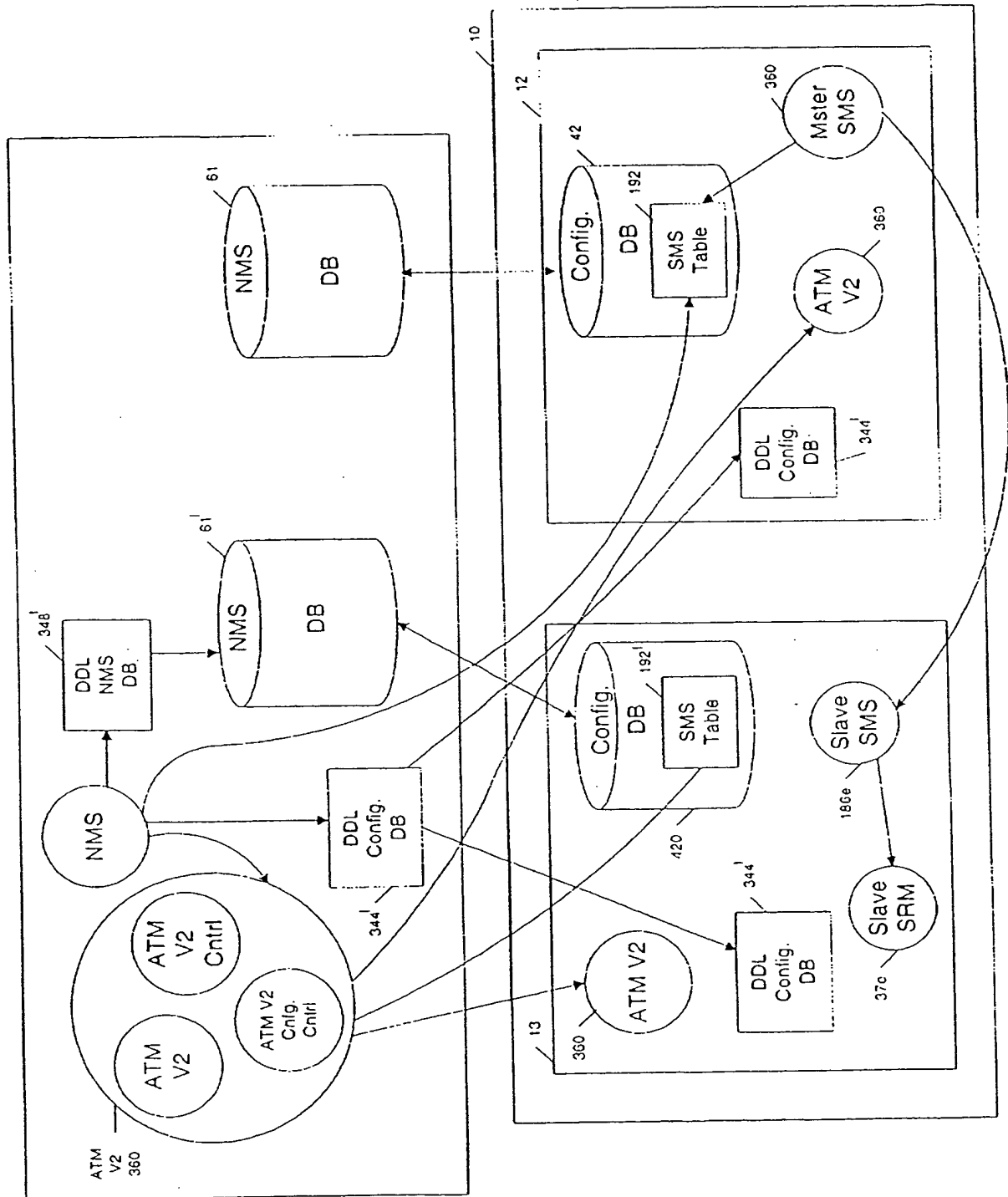


FIG. 23

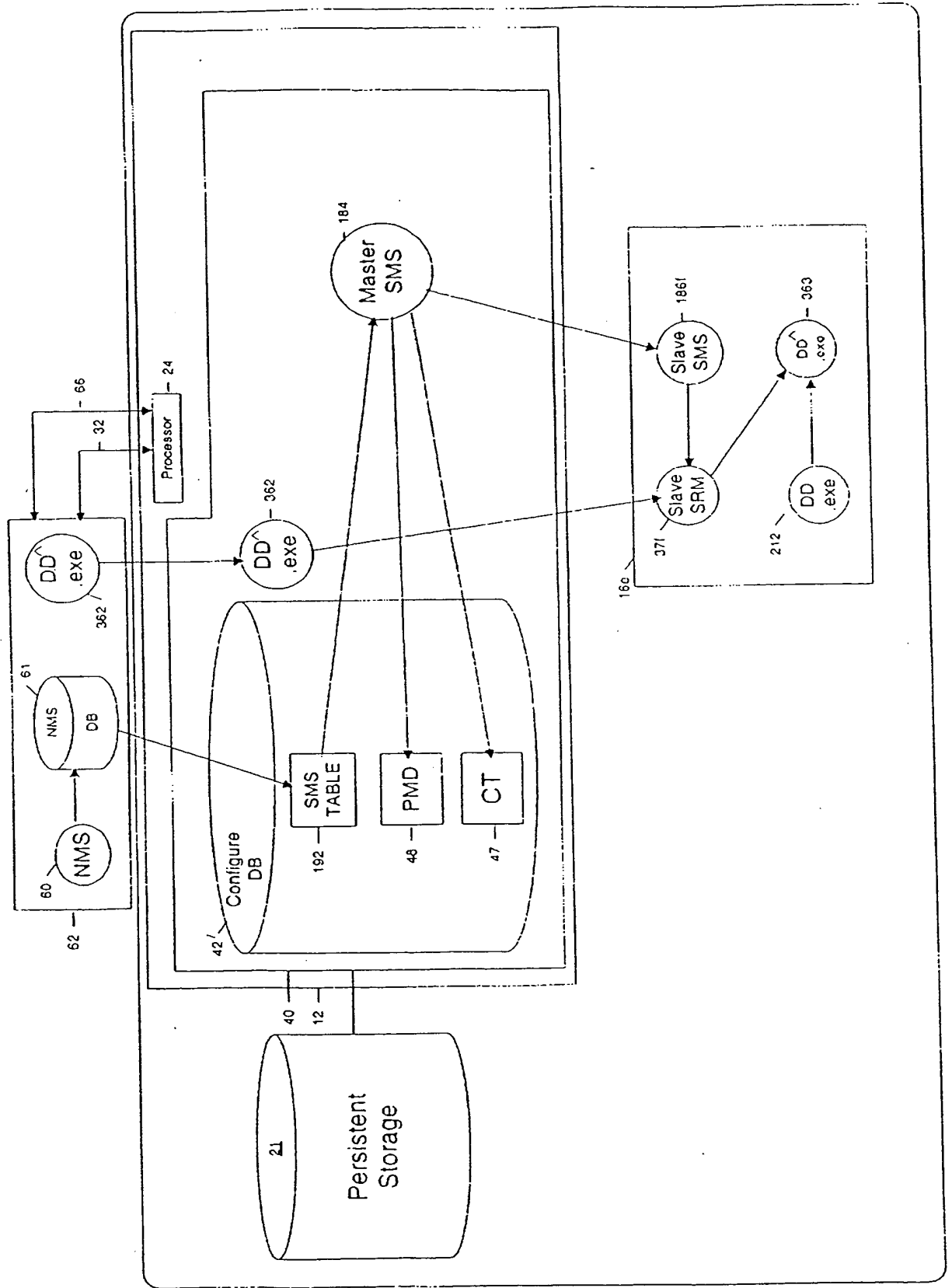


FIG. 24

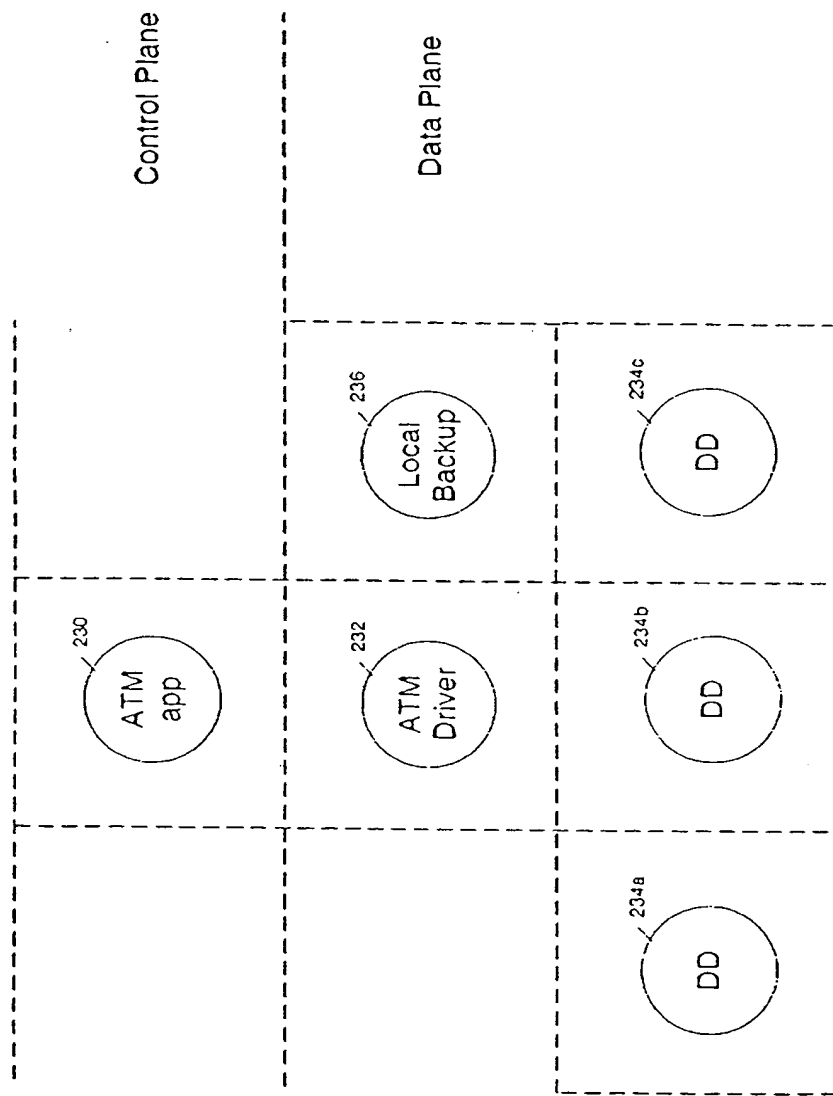


FIG. 25

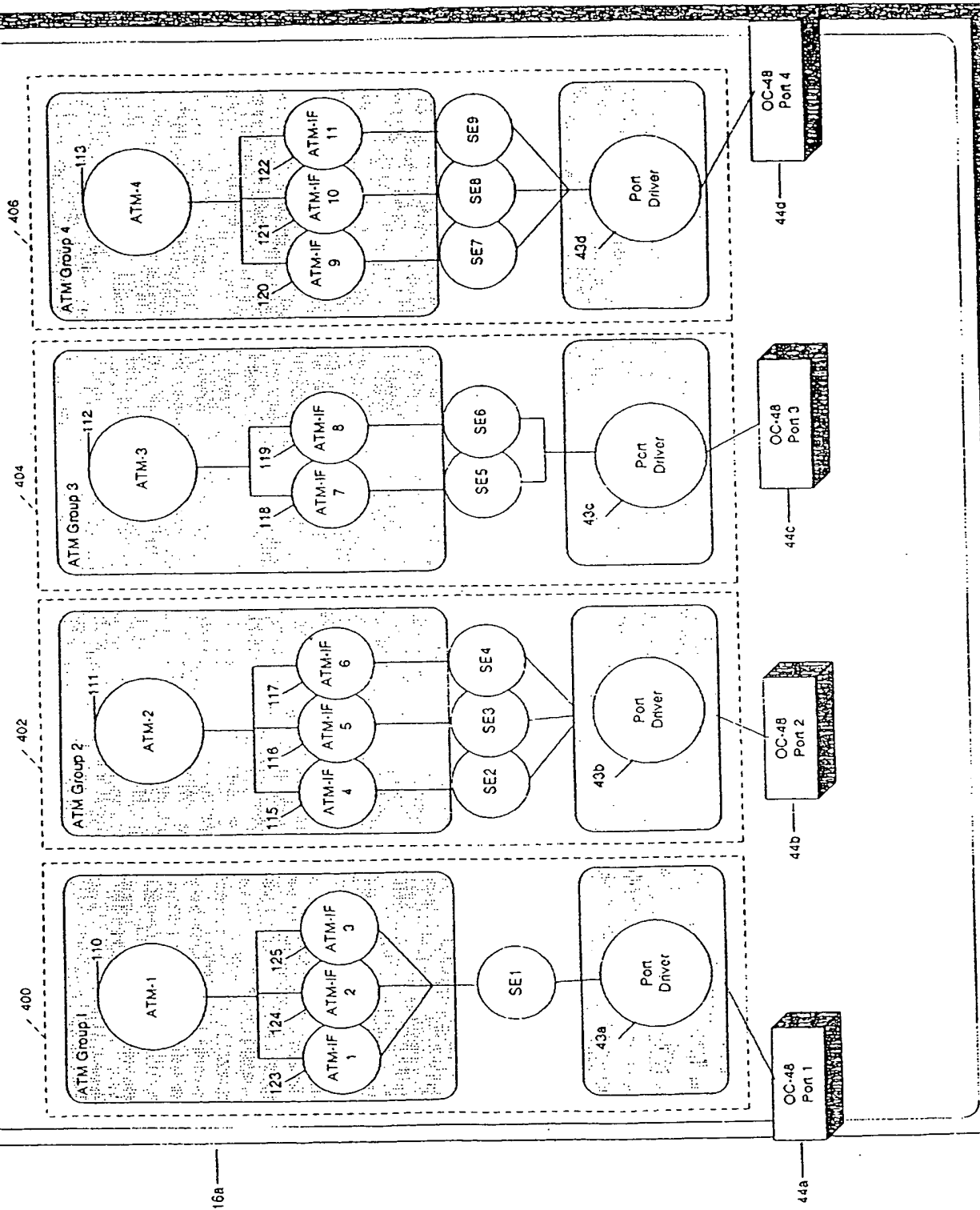


FIG. 26

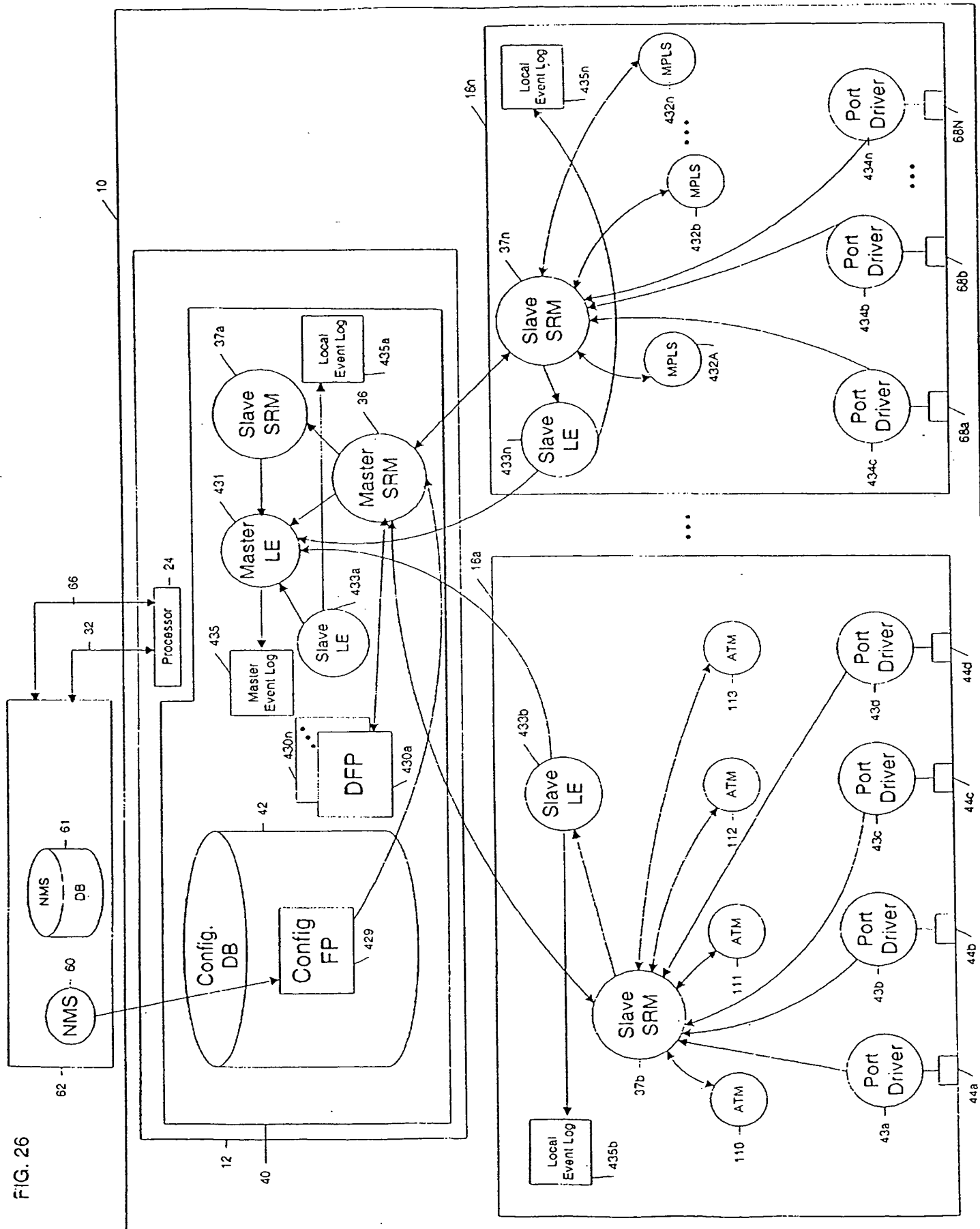


FIG. 27

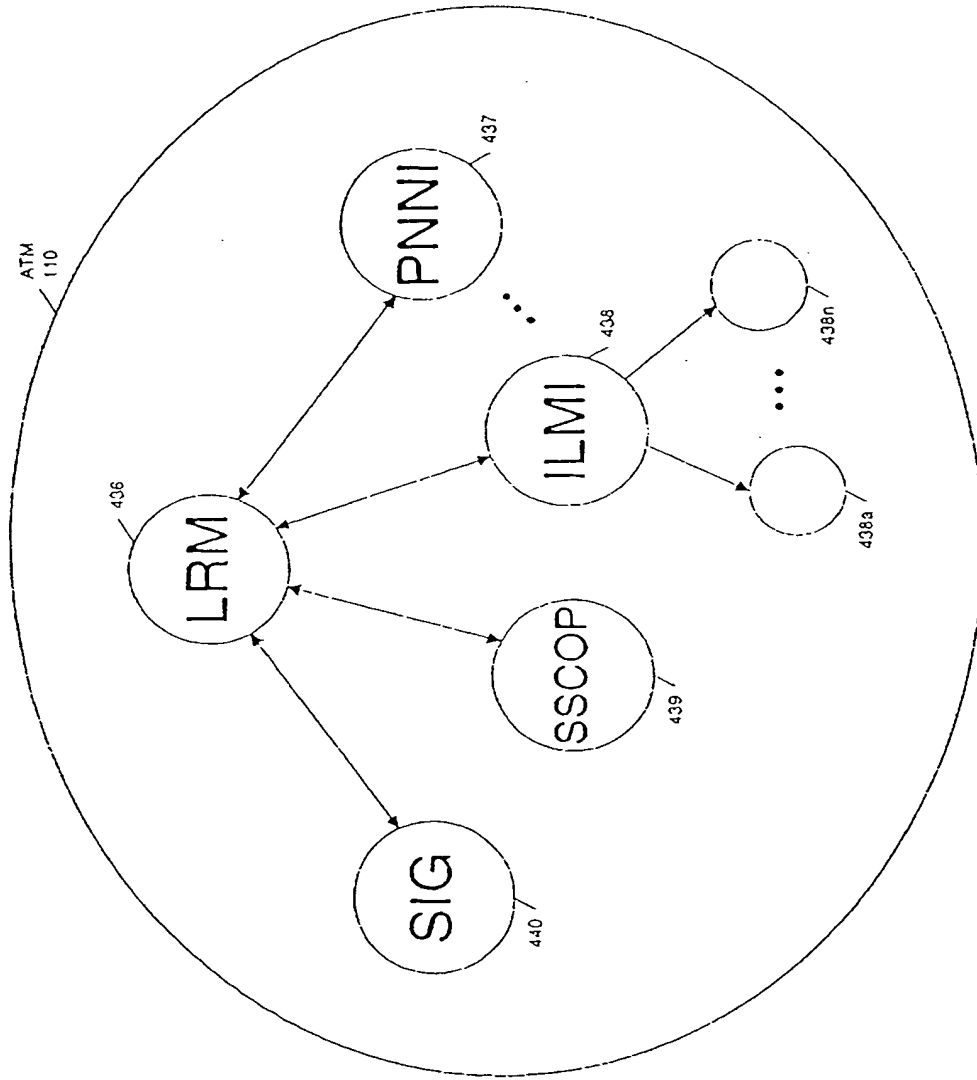


FIG. 28

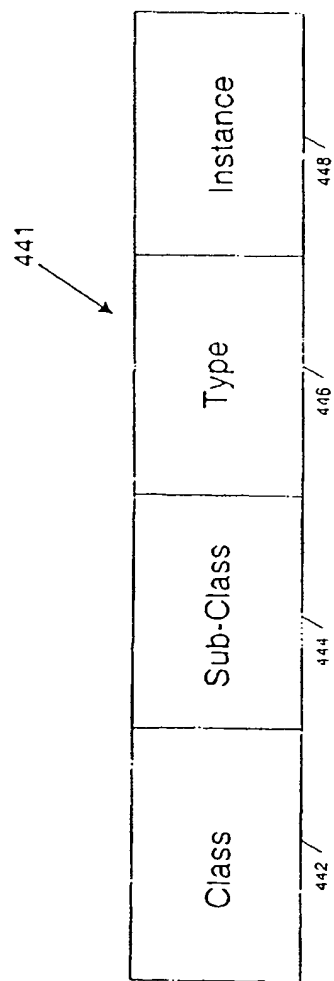


FIG. 29

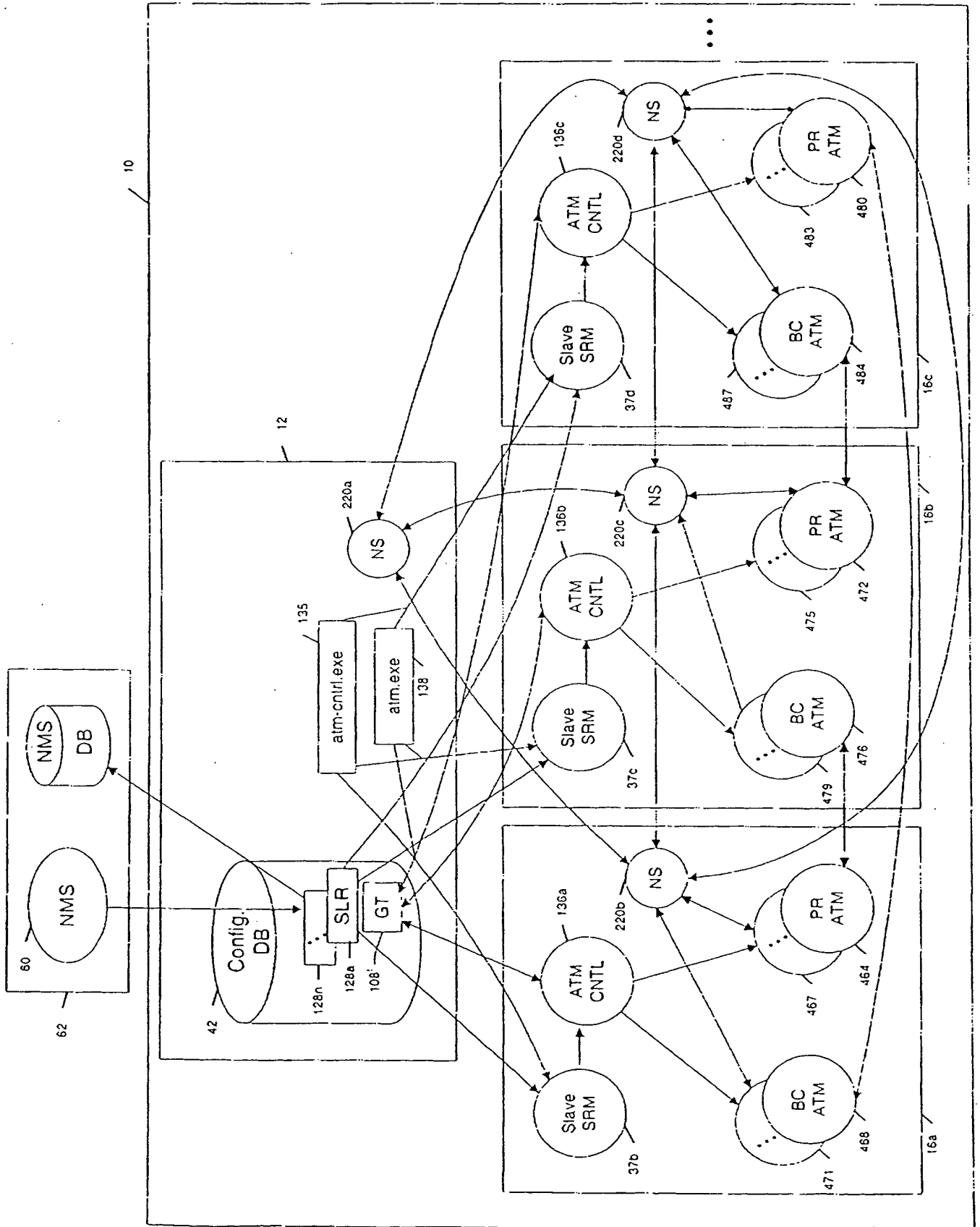


FIG.30

Group Table 108'

	Group #	Primary Card LID	Backup Card LID	...
450	1	30	31	
451	2	30	31	
452	3	30	31	
453	4	30	31	
454	5	31	32	
455	6	31	32	
456	7	31	32	
457	8	31	32	
458	9	32	30	
459	10	32	30	
460	11	32	30	
461	12	32	30	
	⋮	⋮	⋮	⋮

Fig. 31a

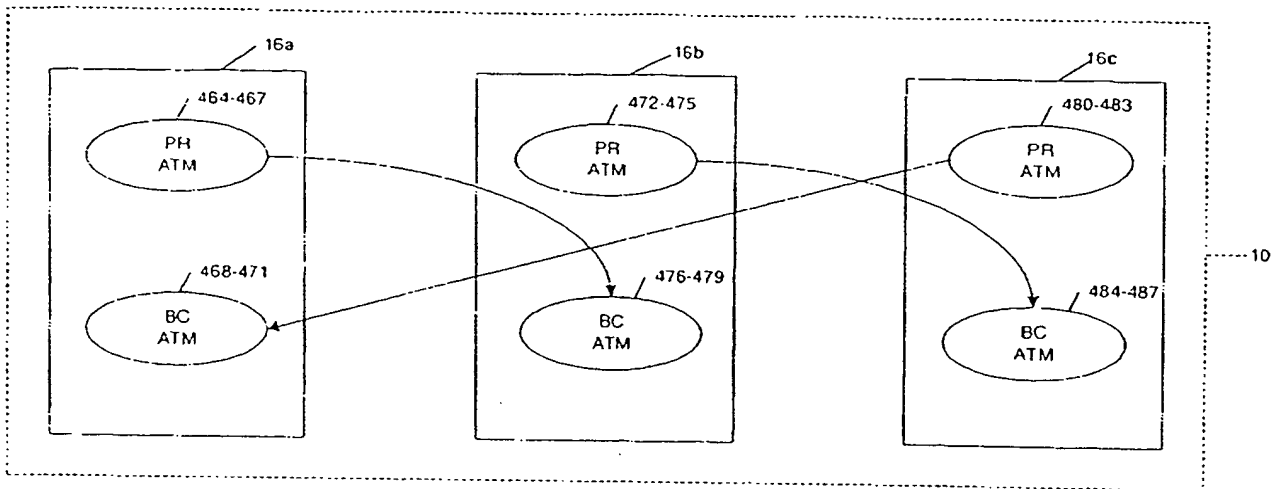


Fig. 31b

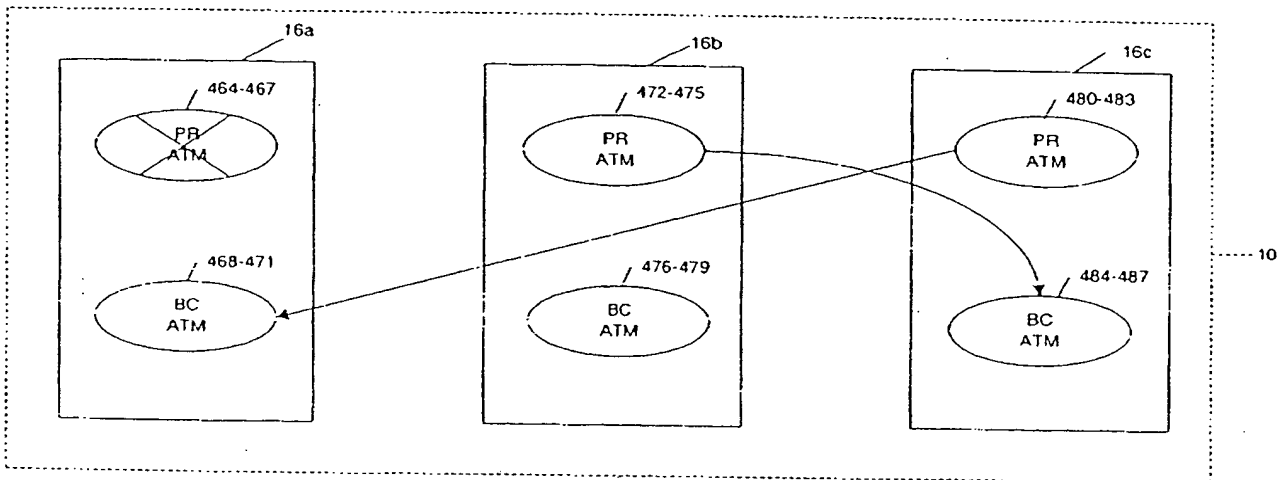


Fig. 31c

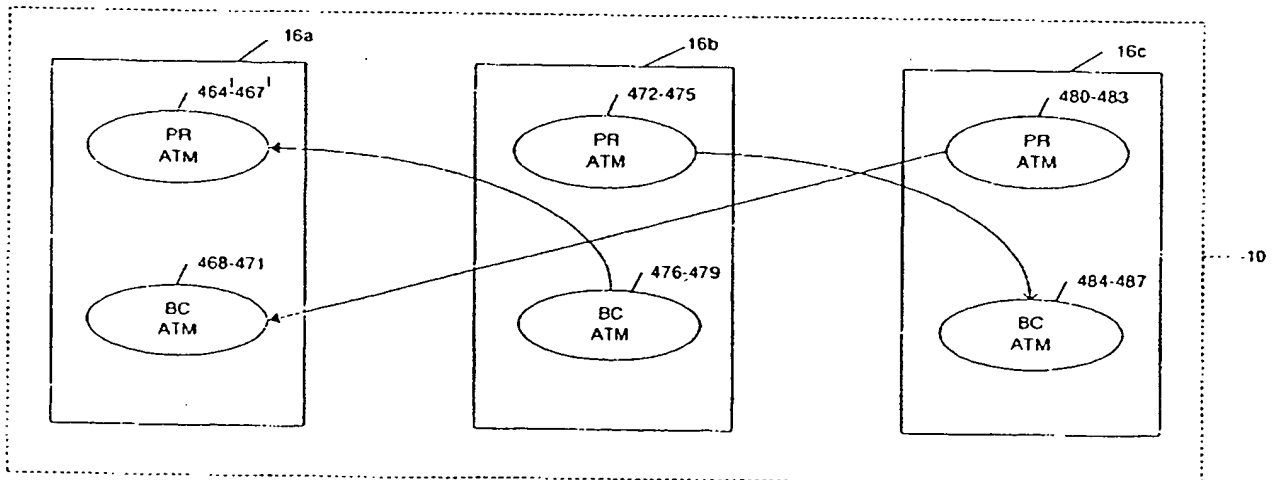


Fig. 32a

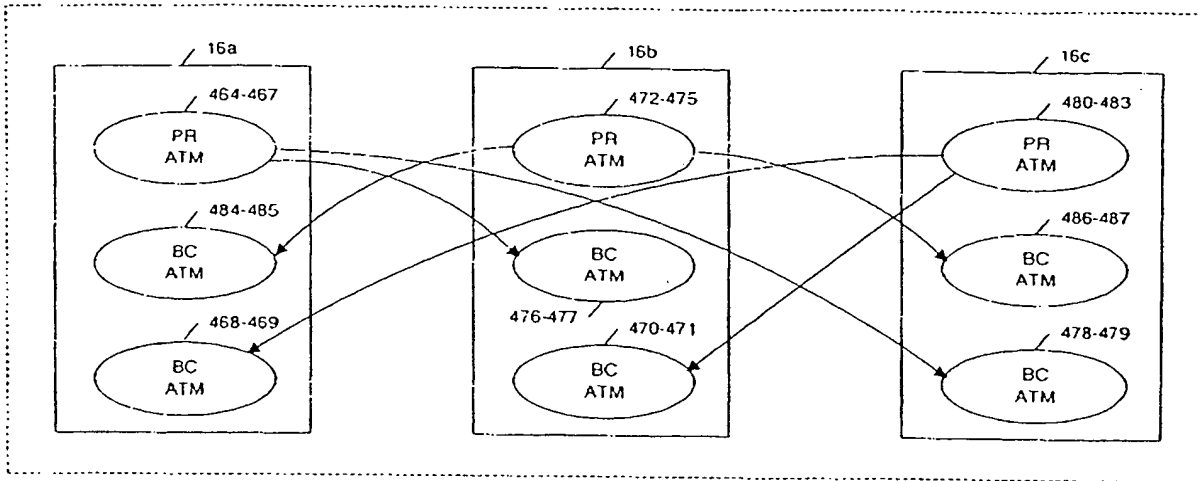


Fig. 32b

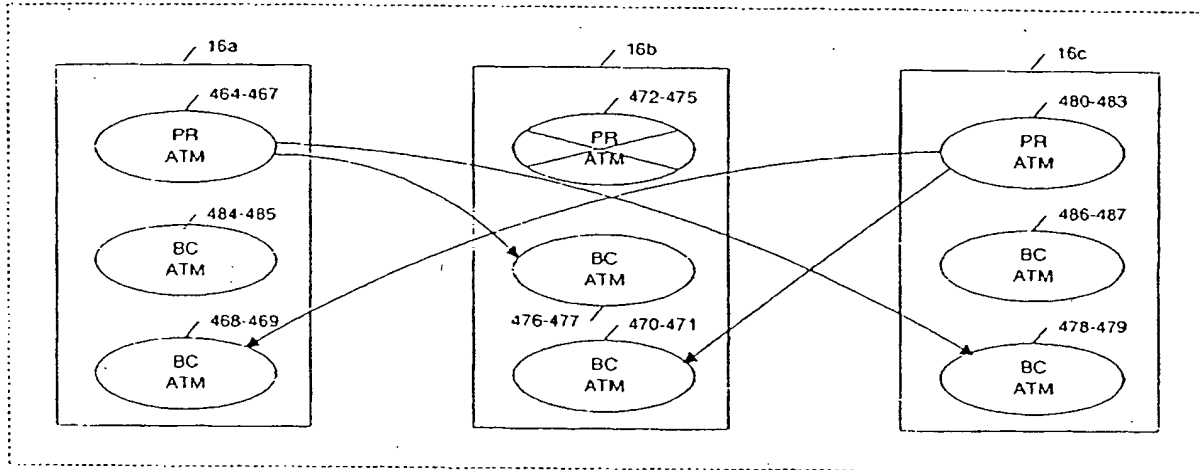


Fig. 32c

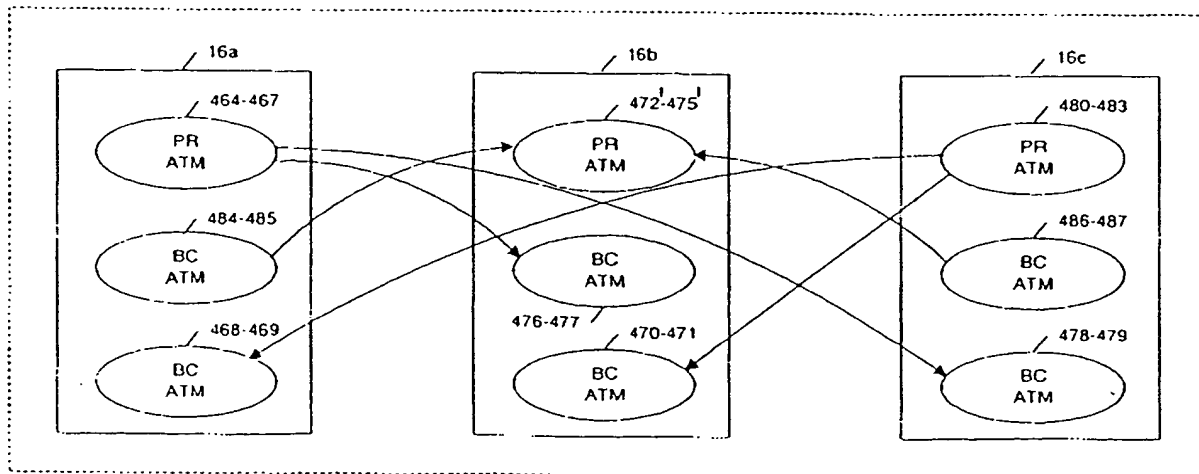


FIG. 33a

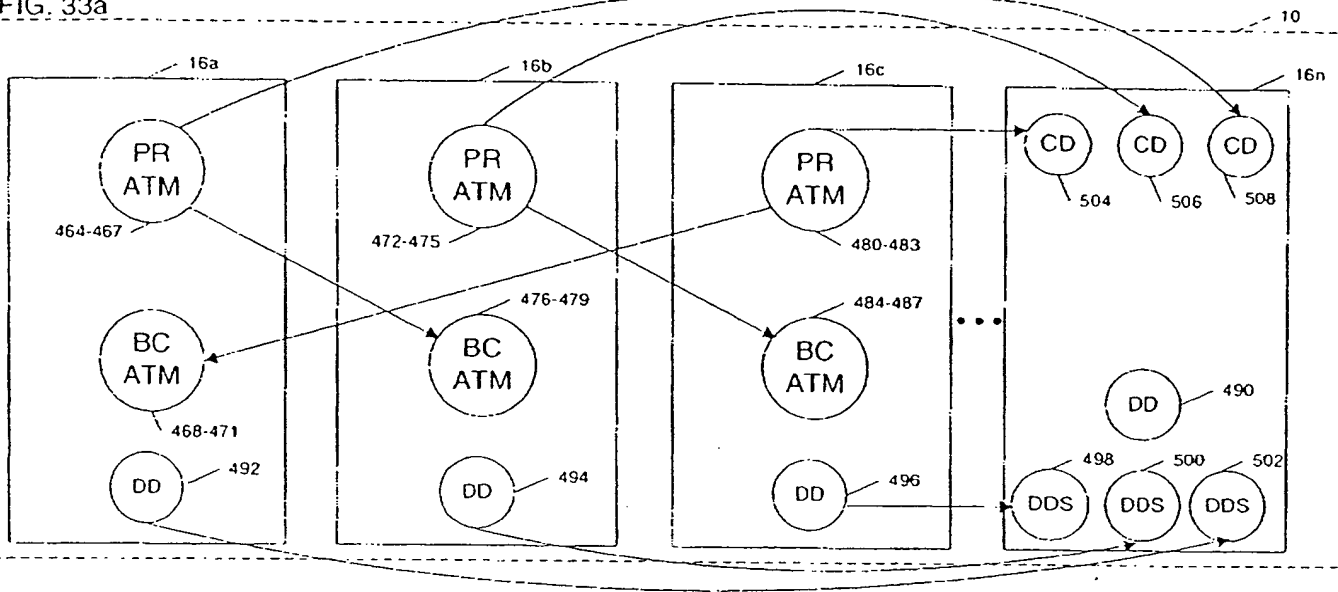


FIG. 33b

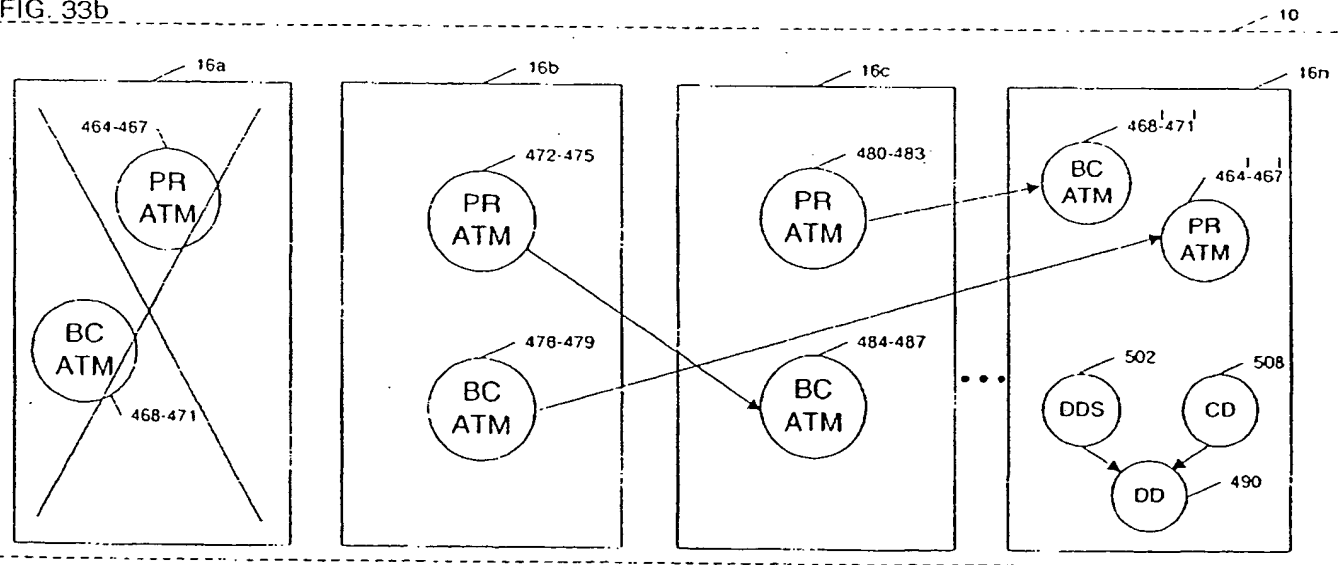


FIG. 33c

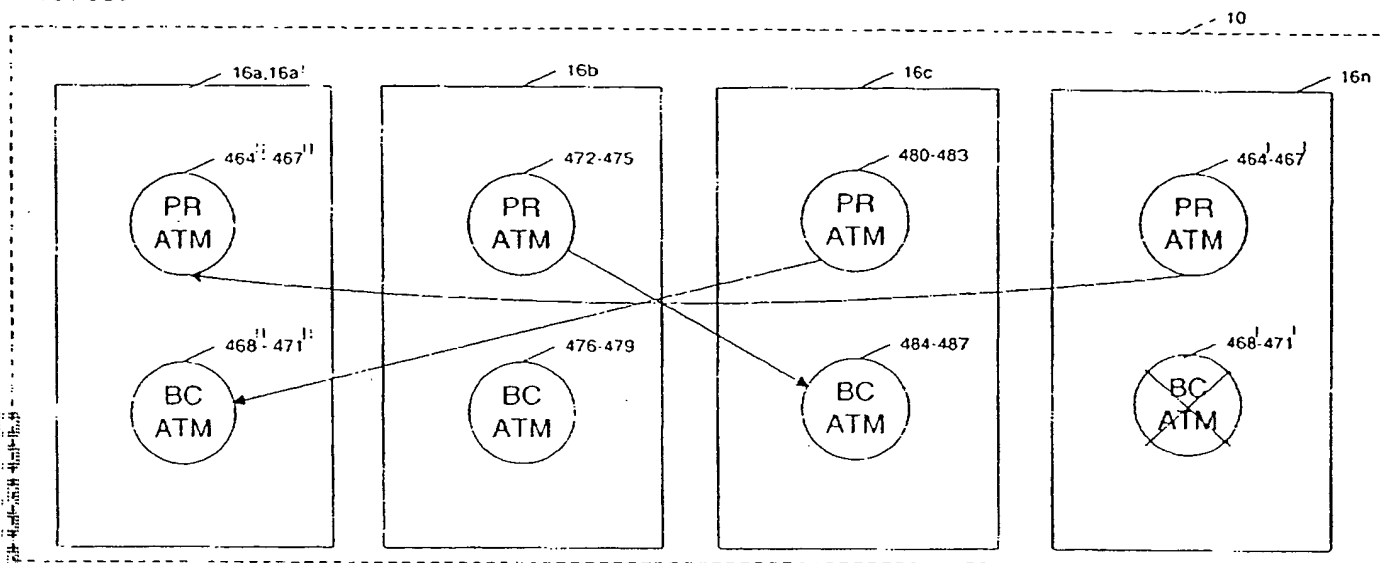
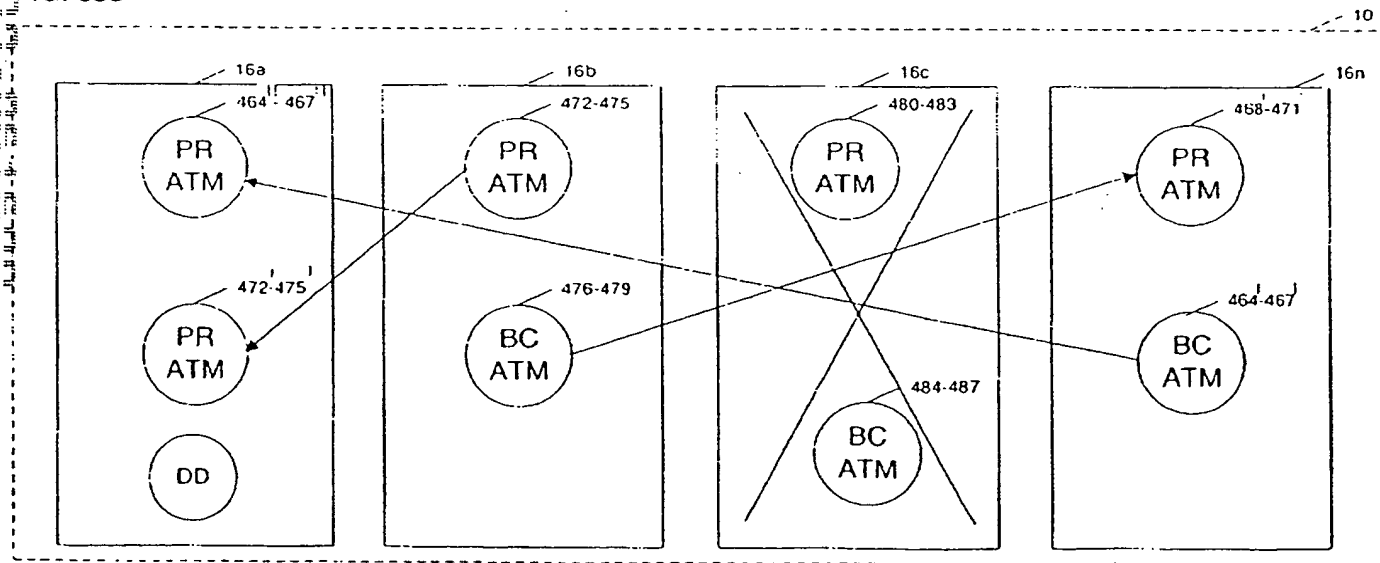


FIG. 33d



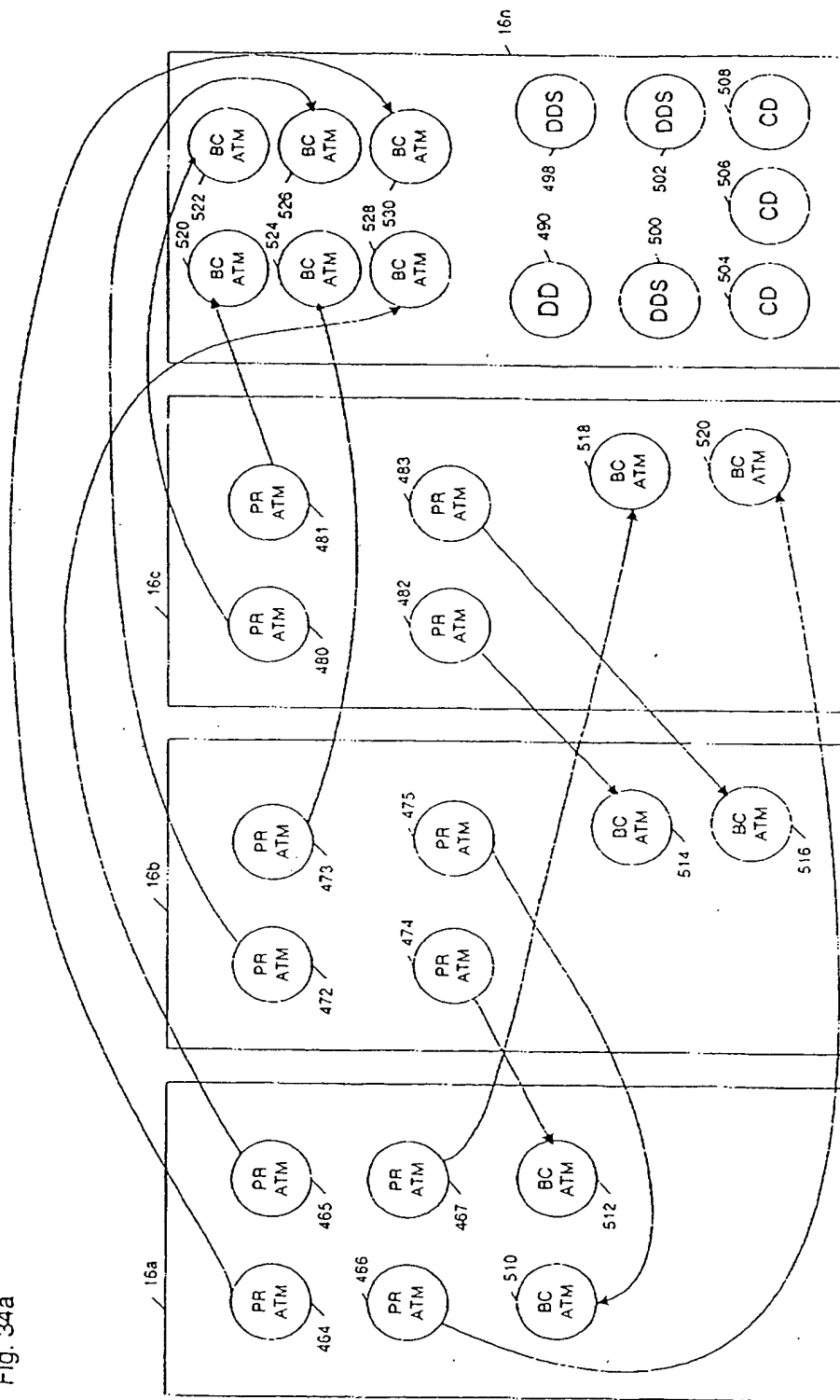
[illegible]

FIG. 34b

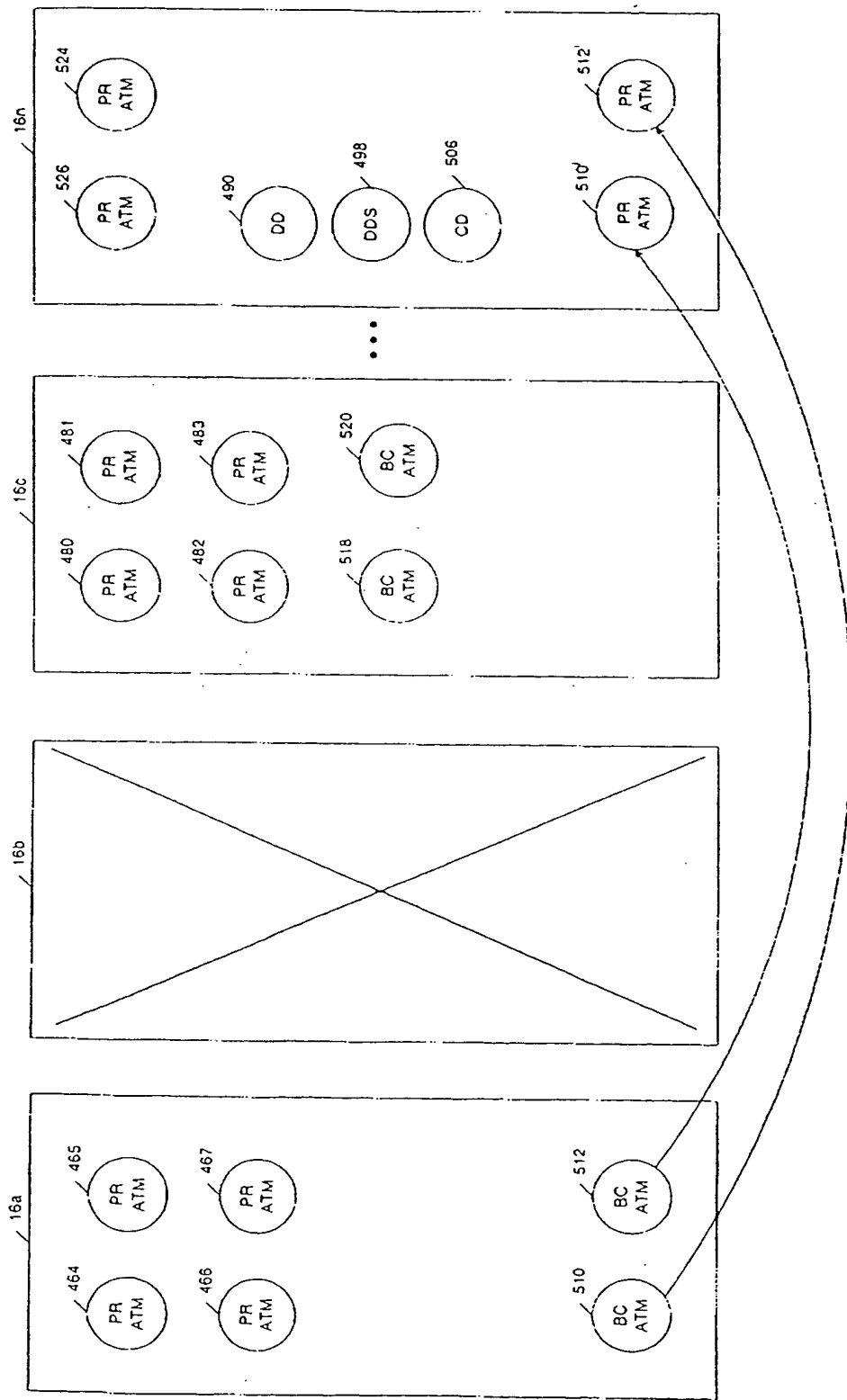


FIG. 35

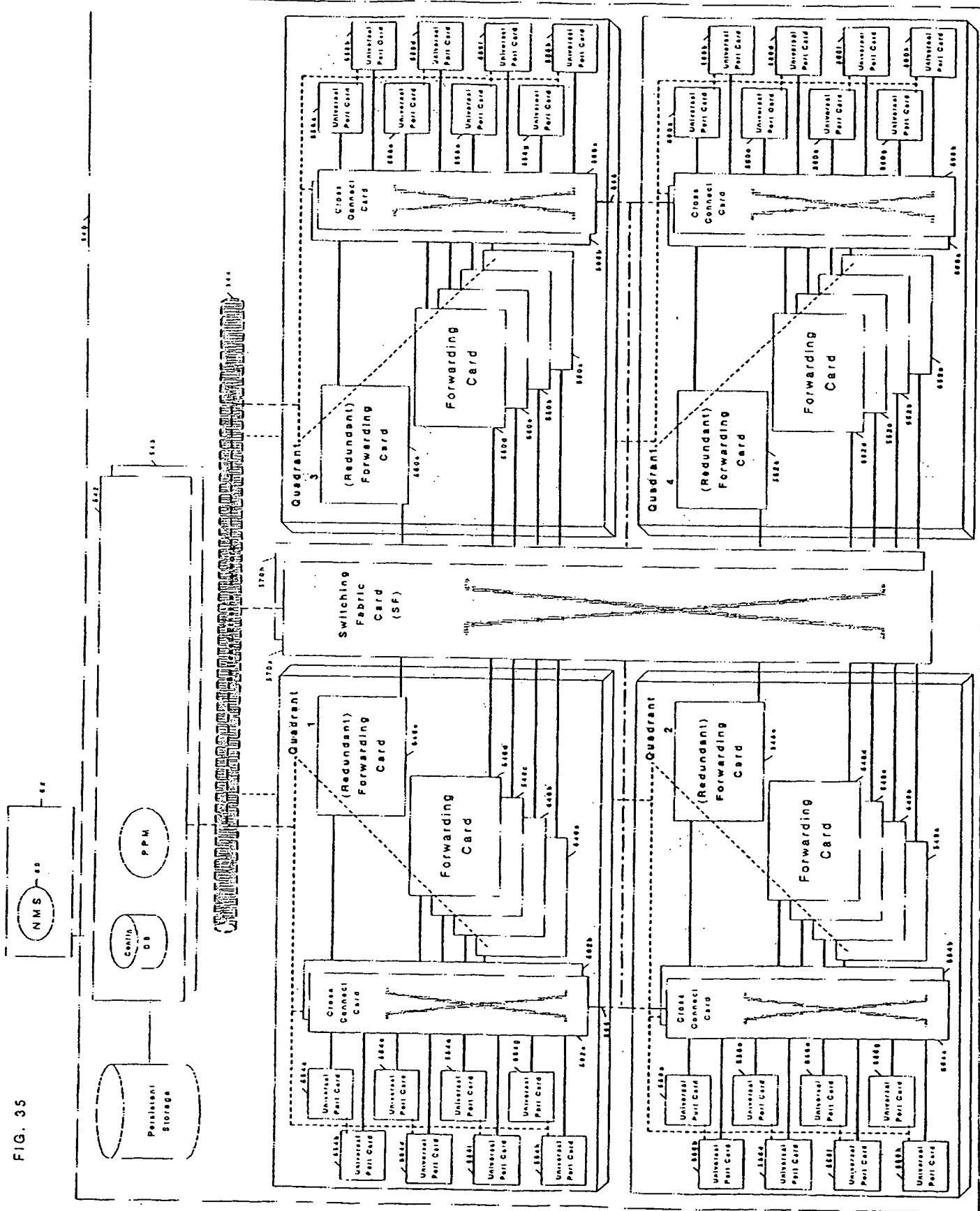


FIG. 36

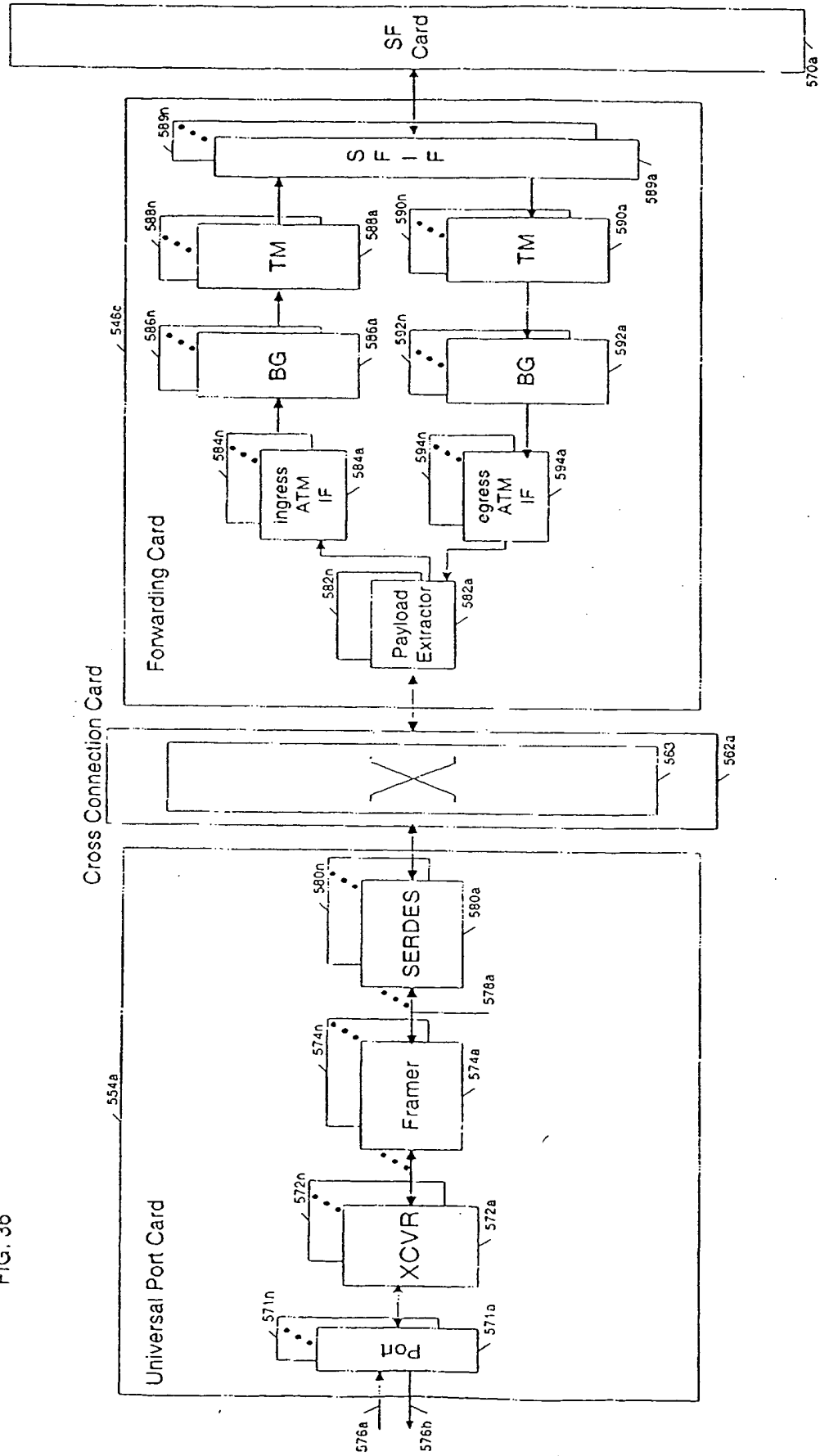


FIG. 37 is a block diagram of a network management system (NMS) architecture. The system includes a central processing unit (CPU) 40, a persistent storage unit 21, and a network management system (NMS) 60. The NMS 60 is connected to a network 540 and a processor 542. The NMS 60 includes a network management system (NMS) 61 and a database (DB) 62. The processor 542 is connected to a path manager 597, a cross-connection card 562a, and a forwarding card 546c. The path manager 597 is connected to a path table 600 and a set 761. The cross-connection card 562a includes a cross-connection manager (CCM) 605, a connection path table (Conn Pr Table) 601, and a table selection element (TSE) 563. The forwarding card 546c includes a set element manager (SEM) 961. The path manager 597 is also connected to a universal port card 554a. The path manager 597 is connected to the path table 600 and the set 761. The path manager 597 is connected to the cross-connection card 562a and the forwarding card 546c. The path manager 597 is connected to the universal port card 554a. The path manager 597 is connected to the path table 600 and the set 761. The path manager 597 is connected to the cross-connection card 562a and the forwarding card 546c. The path manager 597 is connected to the universal port card 554a.

FIG. 37

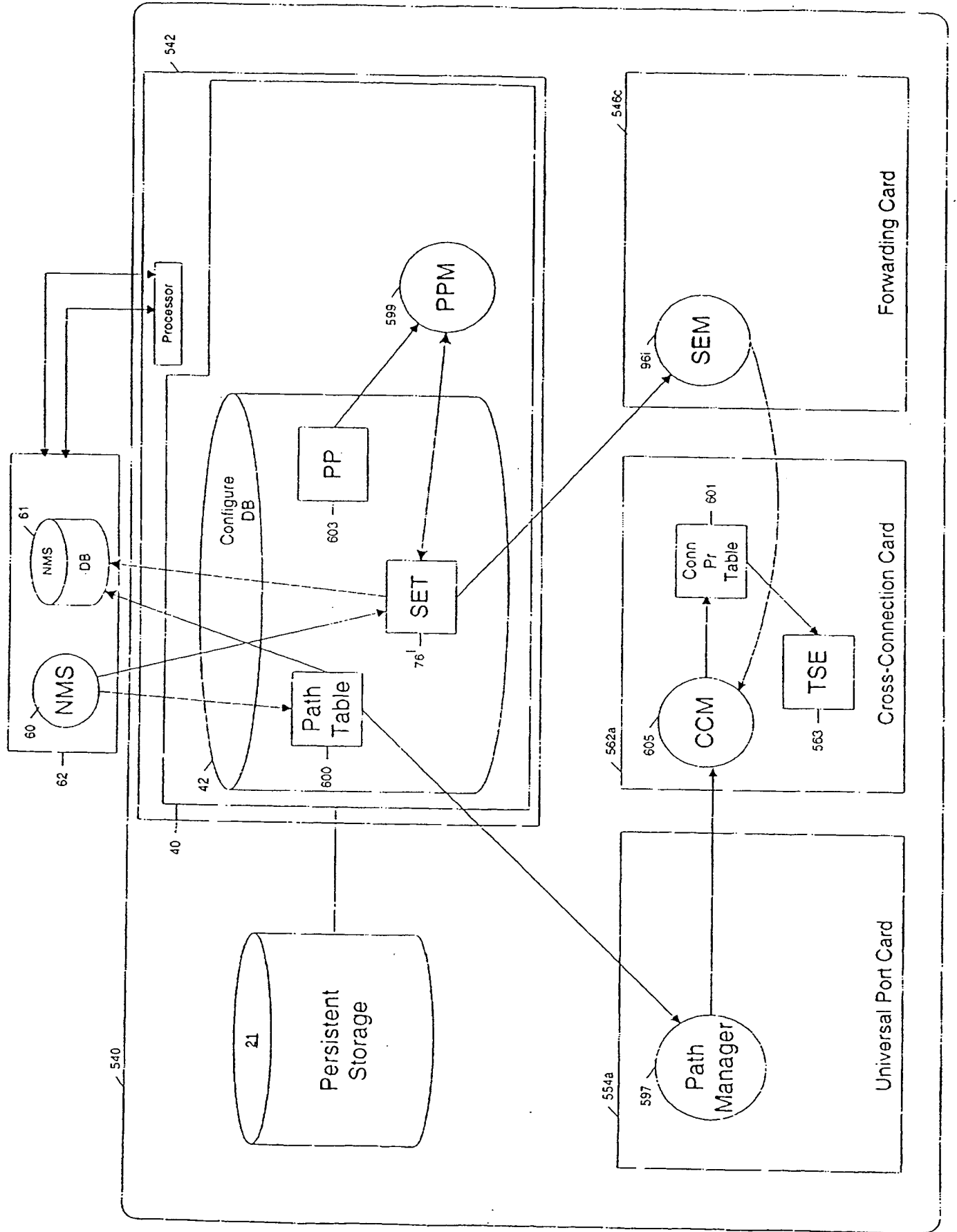


FIG. 38

Path Table 600



Path LID	UP Port LID	Time Slot	# of Time Slots	...
1666	1231	4	3	
...

FIG. 39

Service End Point Table 76'

SE #	Q #	FC LID	FC Slice	FC Time Slot	Path PID	...
878	1				1666	
...

604

606 608 610

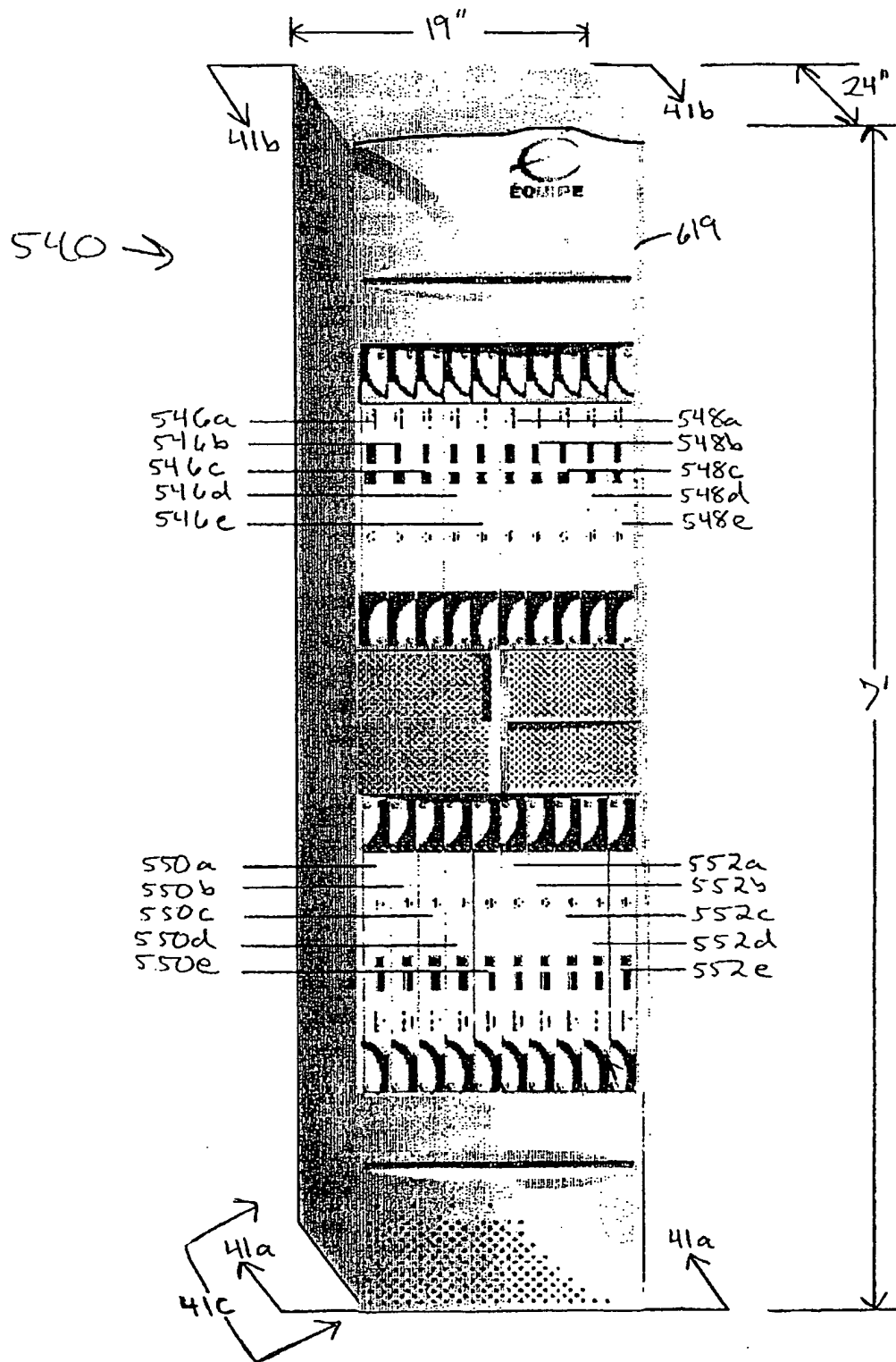


Fig. 40

FIG. 41a
Front

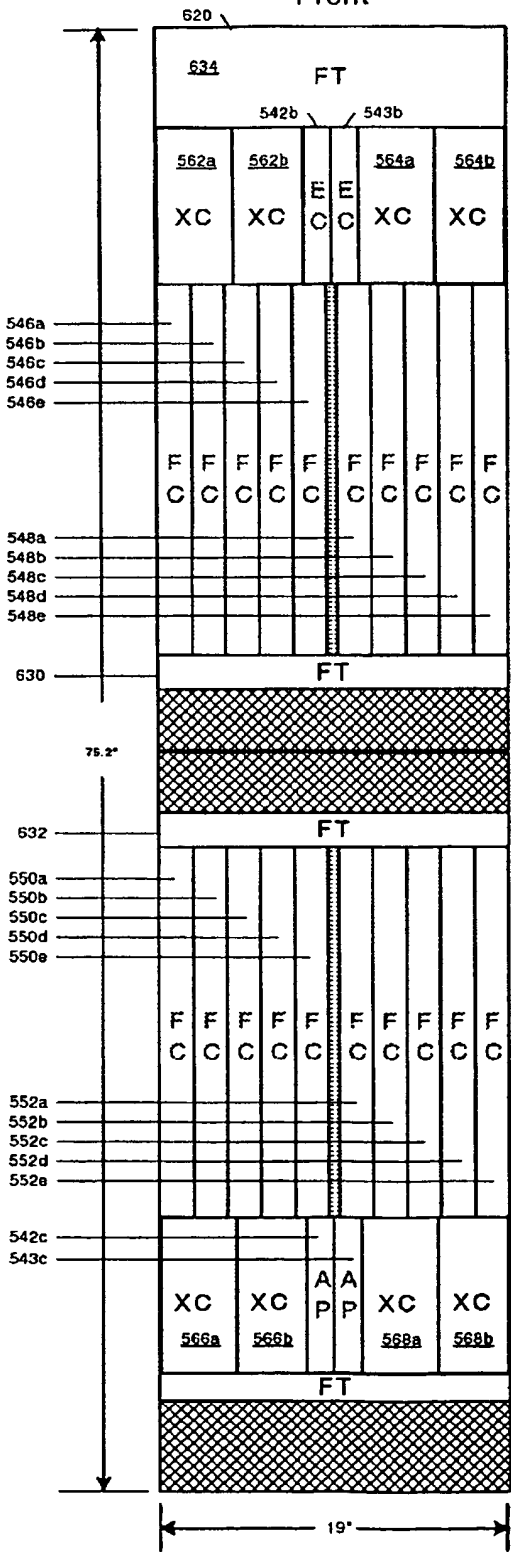


FIG. 41b
Back

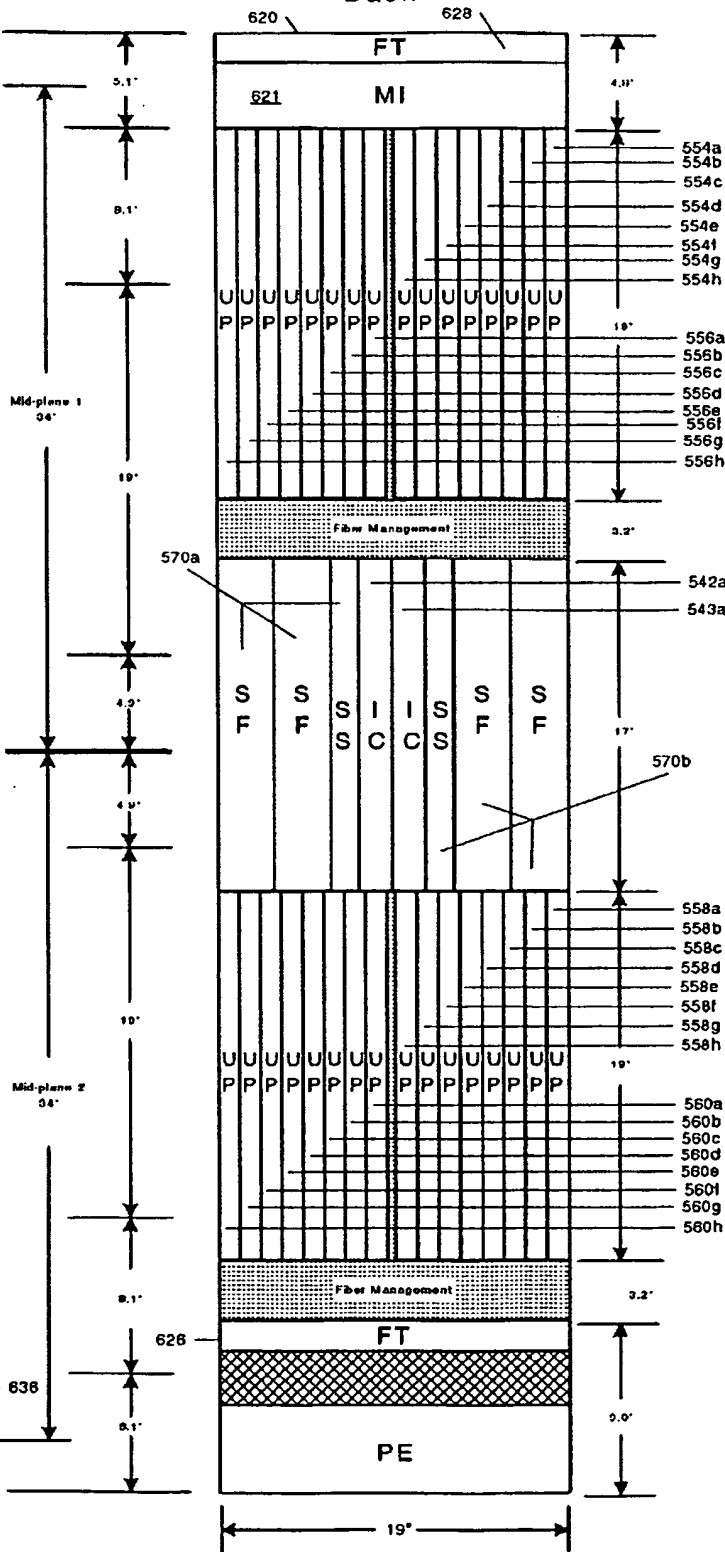


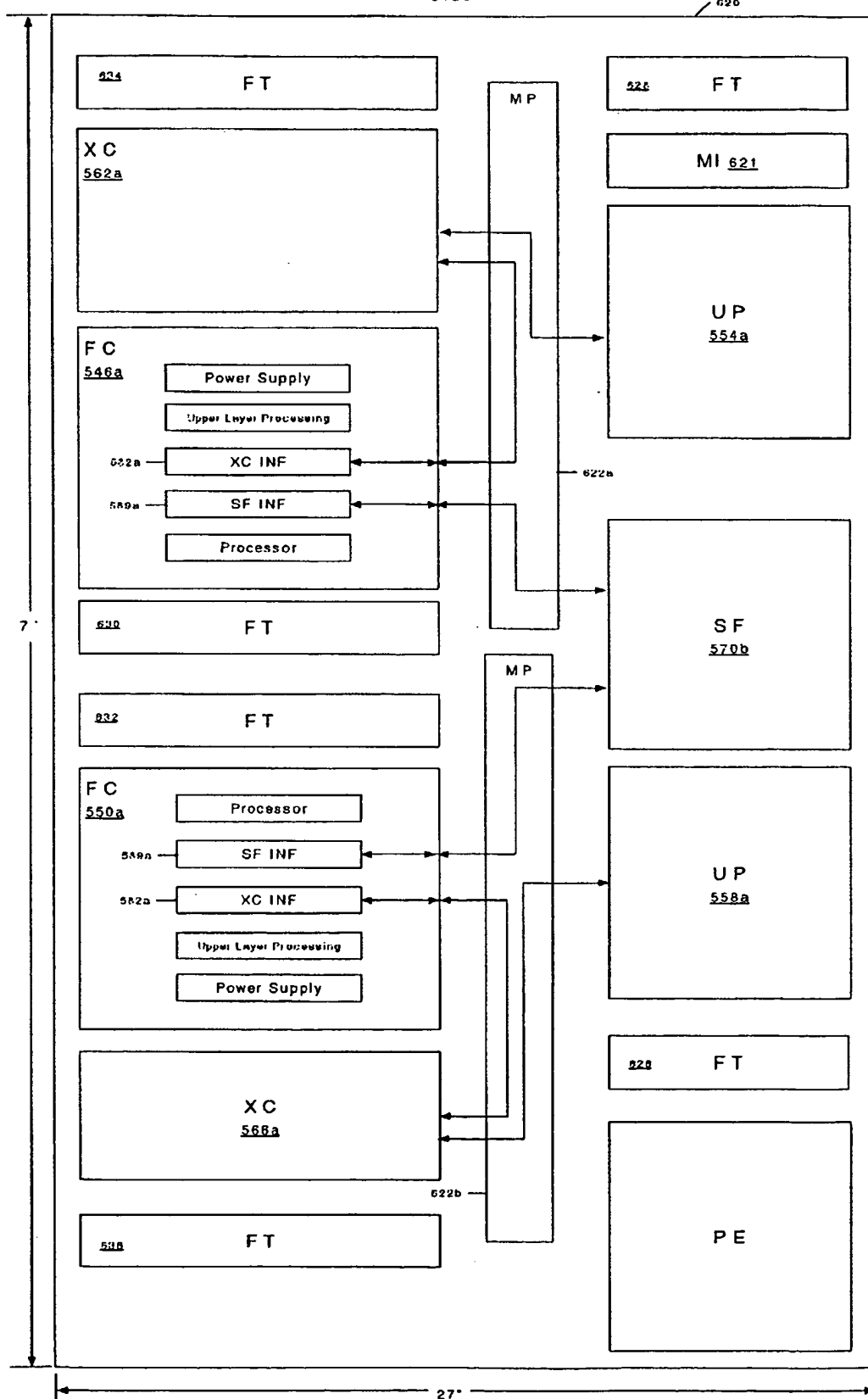
FIG. 41c
Side

FIG. 42

